



# Recombinant Human Translation initiation factor eIF-2B subunit epsilon (EIF2B5)

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| <b>Product Code</b>      | CSB-MP623787HU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Abbreviation</b>      | EIF2B5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Uniprot No.</b>       | Q13144                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Immunogen Species</b> | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Sequence</b>          | AAPVVAPPG VVVSRRANKRS GAGPGGSGGG GARGAEEEEPP PPLQAVLVAD<br>SFDRRFFPIS KDQPRVLLPL ANVALIDYTL EFLTATGVQE TFVFCCWKAA<br>QIKEHLLKSK WCRPTSLNVV RIITSELYRS LGDVLRDVDA KALVRSDFLL<br>VYGDVISNIN ITRALEEHRL RRKLEKNVSV MTMIFKESSP SHPTRCHEDN<br>VVVAVDSTTN RVLHFQKTQG LRRFAFPLSL FQGSSDGVVEV RYDLLDCHIS<br>ICSPQVAQLF TDNFDYQTRD DFVRGLLVNE EILGNQIHMH VTAKEYGARV<br>SNLHMYSAVC ADVIRRWVYP LTPEANFTDS TTQSCTHSRH NIYRGPEVSL<br>GHGSILEENV LLGSGTVIGS NCFITNSVIG PGCHIGDNVV LDQTYLWQGV<br>RVAAGAQIHQ SLLCDNAEVK ERVTLKPRSV LTSQVVVGPN ITLPEGSVIS<br>LHPPDAEEDE DDGEFSDDSG ADQEKDKVKM KGYNPAEVGA<br>AGKGYLWKAA GMNMEEEEEEL QQNLWGLKIN MEESESESE<br>QSMDSSEPD S RGGSPQMDDI KVFQNEVLGT LQRGKEENIS CDNLVLEINS<br>LKYAYNISLK EVMQVLSHVV LEFPLQQMDS PLDSSRYCAL LLPLLKAWSP<br>VFRNYIKRAA DHLEALAAIE DFFLEHEALG ISMAKVLMAF YQLEILAEET<br>ILSWFSQRDT TDKGQQLRKN QQLQRFIQWL KEAEEESSED D |
| <b>Source</b>            | Mammalian cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Target Names</b>      | EIF2B5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Names</b>     | Recommended name: Translation initiation factor eIF-2B subunit epsilon<br>Alternative name(s): eIF-2B GDP-GTP exchange factor subunit epsilon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Expression Region</b> | 2-721                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Protein Length</b>    | Full Length of Mature Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Target Details</b>    | This gene encodes one of five subunits of eukaryotic translation initiation factor 2B (EIF2B), a GTP exchange factor for eukaryotic initiation factor 2 and an essential regulator for protein synthesis. Mutations in this gene and the genes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |



encoding other EIF2B subunits have been associated with leukoencephalopathy with vanishing white matter.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.