



# Recombinant Rat Guanine nucleotide-binding protein subunit beta-5 (Gnb5)

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|--------------------------|---|
| <b>Product Code</b>      | CSB-EP009608RA  |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.   |
| <b>Uniprot No.</b>       | P62882  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Rattus norvegicus (Rat)   |
| <b>Purity</b>            | >85% (SDS-PAGE)   |
| <b>Sequence</b>          | MATDGLHENE TLASLKSEAE SLKGGLEER AKLHDVELHQ VAERVEALGQ<br>FVMKTRRTLK GHGNKVLCMD WCKDKRRIVS SSQDGKIVVW DSFTTNKEHA<br>VTMPCTWVMA CAYAPSGCAI ACGGLDNKCS VYPLTFDKNE NMAAKKKSVA<br>MHTNYLSACS FTNSDMQILT ASGDGTCALW DVESGQLLQS FHGHGADVLC<br>LDLAPSETGN TFVSGGCDKK AMVWDMRSGQ CVQAFETHES<br>DVNSVRYYPYPS GDAFASGSDD ATCRLYDLRA DREVAIYSKE SIIFGASSVD<br>FSLSGRLLFA GYNDYTINVW DVLKGSRSVI LFGHENRVST LRVSPDGTAF<br>CSGSDWHTLR VWA  |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | Gnb5  |
| <b>Protein Names</b>     | Recommended name: Guanine nucleotide-binding protein subunit beta-5<br>Alternative name(s): Gbeta5 Transducin beta chain 5  |
| <b>Expression Region</b> | 1-353   |
| <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 protein   |
| <b>Target Details</b>    | Heterotrimeric guanine nucleotide-binding proteins (G proteins), which integrate signals between receptors and effector proteins, are composed of an alpha, a beta, and a gamma subunit. These subunits are encoded by families of related genes. This gene encodes a beta subunit. Beta subunits are important regulators of alpha subunits, as well as of certain signal transduction receptors and effectors. Alternatively spliced transcript variants encoding different isoforms exist. |
| <b>Reconstitution</b>    | 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.   |
| <b>Shelf Life</b>        | 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.