



# Recombinant Human 39S ribosomal protein L23, mitochondrial (MRPL23)

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|--------------------------|---|
| <b>Product Code</b>      | CSB-EP623084HU  |
| <b>Abbreviation</b>      | MRPL23  |
| <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>       | Q16540  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Homo sapiens (Human)  |
| <b>Purity</b>            | >85% (SDS-PAGE)   |
| <b>Sequence</b>          | MARNVYPLY RLGGPQLRVF RTNFFIQLVR PGVAQPEDTV QFRIPMEMTR<br>VDLRNYLEGI YNVPVAAVRT RVQHGSNKRR DHRNVRIKKP DYKVAYVQLA<br>HGQTFTFPDL FPEKDESPEG SAADDLYSML EEERQQRQSS<br>DPRRGGVPSW FGL  |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | MRPL23  |
| <b>Protein Names</b>     | Recommended name: 39S ribosomal protein L23, mitochondrial Short name= L23mt Short name= MRP-L23 Alternative name(s): L23 mitochondrial-related protein Ribosomal protein L23-like  |
| <b>Expression Region</b> | 1-153   |
| <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>    | Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 39S subunit protein. The gene is biallelically expressed, despite its location within a region of imprinted genes on chromosome 11. |
| <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.

### Shelf Life

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