



# Recombinant Human 28S ribosomal protein S10, mitochondrial (MRPS10)

<b>Product Code</b>	CSB-EP014875HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P82664
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MAARTAFGAV CRRLWQGLGN FSVNTSKGNT AKNGGLLLST NMKWVQFSNL HVDVPKDLTK PVVTISDEPD ILYKRLSVLV KGHDKAVLDS YEYFAVLA AK ELGISIKVHE PPRKIERFTL LQSVHIYKKH RVQYEMRTLY RCLELEHLTG STADVLEYI QRNLPEGVAM EVTQTQLEQL PEHIKEPIWE TLSEEKEESK S
<b>Source</b>	E.coli
<b>Target Names</b>	MRPS10
<b>Protein Names</b>	Recommended name: 28S ribosomal protein S10, mitochondrial Short name= MRP-S10 Short name= S10mt
<b>Expression Region</b>	1-201
<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 28S subunit protein that belongs to the ribosomal protein S10P family. Pseudogenes corresponding to this gene are found on chromosomes 1q, 3p, and 9p.
<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

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.