Recombinant Human Peroxiredoxin-5, mitochondrial (PRDX5)

Product Code	CSB-YP018658HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P30044
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MAPIKVGD AIPAVEVFEG EPGNKVNLAE LFKGKKGVLF GVPGAFTPGC SKTHLPGFVE QAEALKAKGV QVVACLSVND AFVTGEWGRA HKAEGKVRLL ADPTGAFGKE TDLLLDDSLV SIFGNRRLKR FSMVVQDGIV KALNVEPDGT GLTCSLAPNI ISQL
Source	Yeast
Target Names	PRDX5
Protein Names	Recommended name: Peroxiredoxin-5, mitochondrial EC= 1.11.1.15 Alternative name(s): Alu corepressor 1 Antioxidant enzyme B166 Short name= AOEB166 Liver tissue 2D-page spot 71B PLP Peroxiredoxin V Short name= Pr
Expression Region	53-214
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in different tissues under normal conditions and during inflammatory processes. This protein interacts with peroxisome receptor 1. The crystal structure of this protein in its reduced form has been resolved to 1.5 angstrom resolution. This gene uses alternate in-frame translation initiation sites to generate mitochondrial or peroxisomal/cytoplasmic forms. Three transcript variants encoding distinct isoforms have been identified for this gene.
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.
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.