Recombinant Human Protein phosphatase 1 regulatory subunit 12B (PPP1R12B), partial

Product Code	CSB-EP018512HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O60237
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Source	E.coli
Target Names	PPP1R12B
Protein Names	Recommended name: Protein phosphatase 1 regulatory subunit 12B Alternative name(s): Myosin phosphatase-targeting subunit 2 Short name= Myosin phosphatase target subunit 2
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	Partial
Target Details	Myosin light chain phosphatase (MLCP) consists of three subunits- catalytic subunit, large subunit/myosin binding subunit (MBS) and small subunit (sm-M20). This gene is a multi-functional gene which encodes both MBS and sm-M20. MLCP regulates myosins and the dephosphorylation is enhanced by the presence of MBS. The sm-M20 is suggested to play a regulatory role in muscle contraction by binding to MBS. There are two MBS subunits; myosin light chain phosphatase target subunit 1 (MYPT1)-MBS is encoded by another gene, and myosin light chain phosphatase target subunit 2 (MYPT2)-MBS is encoded by this gene. sm-M20 shows higher binding affinity to MYPT1-MBS than to MYPT2-MBS, even though the two MBS proteins are highly similar. Although both MBSs increase the activity of MLCP, MYPT1-MBS is a more efficient activator. Multiple alternatively spliced transcript variants have been found.
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.