



Recombinant Mouse Heat shock 70 kDa protein 1B (Hspa1b)

Product Code	CSB-EP010822MO
Relevance	In cooperation with other chaperones, Hsp70s stabilize preexistent proteins against aggregation and mediate the folding of newly translated polypeptides in the cytosol as well as within organelles. These chaperones participate in all these processes through their ability to recognize nonnative conformations of other proteins. They bind extended peptide segments with a net hydrophobic character exposed by polypeptides during translation and membrane translocation, or following stress-induced damage. Essential for STUB1-mediated ubiquitination and degradation of FOXP3 in regulatory T-cells (Treg) during inflammation.
Abbreviation	Recombinant Mouse Hspa1b protein
Storage	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.
Uniprot No.	P17879
Alias	Heat shock 70 kDa protein 1 Short name: HSP70.1
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	AKNTAIGIDLGTTYSCVGVFQHGKVEIANDQGNRTTPSYVAFTDTERLIGDAAK NQVALNPQNTVFDKRLIGRKFGDAVVQSDMKHWPQVVDNDGDKPKVQVNY KGESRSFFPEEISSMVLTKMKEIAEAYLGHPVTNAVITVPAYFNDSQRQATKDA GVIAGLNVLRINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFE VKATAGDTHLGGEDFDNRLVSHFVEEFKRKHKKDISQNKRAVRRRLRTACERA KRTLSSSTQASLEIDSLFEGIDFYTSITARFEELCSDLFRGTLEPVEKALRDAK MDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGA AVQAAI LMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTIPTKQTQTFTTYS NQPGVLIQVYEGERAMTRDNNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILN VTATDKSTGKANKITITNDKGRLSKEEIERMVQEAERYKAEDDEVQRDRVAAKN ALESYAFNMKSAVEDEGLKGKLSEADKKKVLDKCQEVISWLDSNTLADKEEFV HKREELERVCSPIISGLYQGAGAPGAGGFGAQAPPKGASGSGPTIEEVD
Research Area	Others
Source	E.coli
Target Names	Hspa1b
Expression Region	2-642aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at

4°C for up to one week.

Tag Info

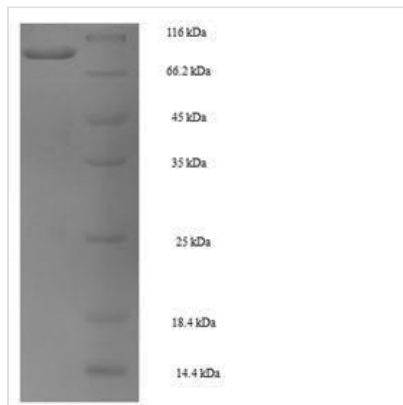
N-terminal 6xHis-SUMO-tagged

Mol. Weight

86.0kDa

Protein Length

Full Length of Mature Protein

Image


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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.