9051 Mira Mesa Blvd, #910094
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HSPA1B Human

Heat Shock 70kDa protein 1B Human Recombinant
RCP1076

Product Overview

Name	HSPA1B Human
Description	
Heat Shock 70kDa protein 1B Human Recombinant	
Accession (Primary)	P0DMV9
Synonyms	
Heat shock 70kDa protein 1B, HSP70-2, HSP70-1/HSP70-2, FLJ54328, HSPA1A, heat shock 70kDa protein 1A/1B, HSPA1.	
Introduction	
The HSP70 family is found in many intracellular compartments such as chloroplasts, endoplasmic reticulum, mitochondria, and cytosol. These proteins are induced by a variation of biological stresses, including heat stress, in every organism. HSP70 has a range of functions. For example: HSP70 acts as molecular chaperones facilitating the assembly of multi-protein complexes, HSP70 take part in the translocation of polypeptides across cell membranes and to the nucleus, and HSP70 assists in the proper folding of nascent polypeptide chains. HSP70 is a mitochondrial import equipment and has a crucial part in the cytosolic endoplasmic reticulum. Lately, extracellular localized HSP was discovered to take an important part in the induction of a cellular immune response.	
Source	
Escherichia Coli.	
Physical Appearance	
Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was filtered (0.4 µm) and lyophilized from a 0.5mg/ml solution containing 50mM phosphate buffer, 75mM NaCl, pH 7.4.	
Stability	
Lyophilized HSPA1B although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution HSPA1B should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.	
Amino acid sequence	
MKHHHHHHAS AKAAAIGIDL GTTYSCVGVF QHGKVEIIAN DQGNRTTPSY VAFTDTERLI GDAAKNQVAL	

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NPQNTVFDAK RLIGRKFGDP VVQSDMKHWP FQVINDGDKP KVQVSYKGET KAFYPEEISS MVLTKMKEIA EAYLGYPVTN AVITVPAYFN DSQRQATKDA GVIAGLNVLR IINEPTAAAI AYGLDRTGKG ERNVLIFDLG GGTFDVSILT IDDGIFEVKA TAGDTHLGGEDFDNRLVNHF VEEFKRKHKK DISQNKRAVR RLRTACERAK RTLSSSTQAS LEIDSLFEGI DFYTSITRAR FEELCSDLFR STLEPVEKAL RDAKLDKAQI HDLVLVGGST RIPKVQKLLQ DFFNGRDLNK SINPDEAVAY GAAVQAAILM GDKSENVQDL LLLDVAPLSL GLETAGGVMT ALIKRNSTIP TKQTQIFTTY SDNQPGVLIQ VYEGERAMTK DNNLLGRFEL SGIPPAPRGVPQIEVTFDID ANGILNVTAT DKSTGKANKI TITNDKGRLS KEEIERMVQE AEKYKAEDEV QRERVSAKNA LESYAFNMKS AVEDEGLKGK ISEADKKKVL DKCQEVISWL DANTLAEKDE FEHKRKELEQ VCNPIISGLY QGAGGPGPGG FGAQGPKGGS GSGPTIEEVD.

Solubility

It is recommended to add deionized water to prepare a working stock solution of 0.5mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Precautions

HSPA1B Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P0DMV9)