

Recombinant Human HSPA8 / HSC70 Protein (His tag)

Cat.NO.: TP07572

3th Edition

Synonyms:HEL-33;HEL-S-72p;HSC54;HSC70;HSC71;HSP71;HSP73;HSPA10;LAP-1;LAP1;NIP71

Description:HSPA8, also known as HSC70, is a member of the heat shock protein family due to homology with other heat shock proteins. The heat shock protein 70 family is comprised by both heat-inducible and constitutively expressed members. The latter are called heat-shock cognate proteins. HSPA8 belongs to the heat-shock cognate subgroup. Members of the human heat-shock protein multigene family have several highly conserved proteins with structural and functional properties in common, but vary in the extent of their inducibility in response to metabolic stress. HSPA8 is constitutively expressed and performs functions related to normal cellular processes. This protein binds to nascent polypeptides to facilitate correct protein folding. It also functions as an ATPase in the disassembly of clathrin-coated vesicles during transport of membrane components through the cell. Two alternatively spliced variants have been characterized to date. HSPA8 acts as a repressor of transcriptional activation. It inhibits the transcriptional coactivator activity of CITED1 on Smad-mediated transcription. Isoform 2 may function as an endogenous inhibitory regulator of HSC70 by competing the co-chaperones. It also is a ATPase that works with auxilin to remove clathrin coated vesicles. In neurons, synaptojanin is also an important protein involved in vesicle uncoating.

Form:PBS

Molecular Weight:72.4 kDa

Sequences:Met 1-Asp 646

Purity:> 95% by HPLC

Concentration:

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.