

HSPA5, 19-654aa, Human, His tag, E.coli

Cat.NO.: TP02530

3th Edition

Synonyms:78 kDa glucose-regulated protein, BIP, GRP78, MIF2

Description:HSPA5 is a member of the heat shock protein 70 (HSP70) family. It is localized in the lumen of the endoplasmic reticulum (ER), and is involved in the folding and assembly of proteins in the ER. As this protein interacts with many ER proteins, it may play a key role in monitoring protein transport through the cell. Recombinant human HSPA5 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT.

Molecular Weight:72.9kDa (659aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIANDQQGNRITPSYVAFTP
EGERLIGDAAKNQLTSNPENTVFDKRLIGRTWNPVSVQDQIKFLPFKVVVEKTKPYIQVDIGGGQTKTFAPEEISAM
VLTKMKETAAYLGKKVTHAVVTVPAYFNDAQRQATKDAGTIAGLNVMRIINEPTAAAIAYGLDKREGEKNILVFDLG
GGTFDVSLLTIDNGVFEVVATNGDTHLGGEDFDQVRVMEHFILYKKKTGKDVRKDNRAVQKLRREVEKAKRALSSQ
HQARIEIESFYEGEDFSETLTRAKEELNMDLFRSTMKPQKVLSDLLKSDIDEIVLVGGSTRIPKIQQLVKEFFNG
KEPSRGINPDEAVAYGAAGVLSGDQDTGDLVLLDVCPLTLGIETVGGVMTKLIPRNTVVPTKKSQIFSTASDNQ
PTVTIKVYEGERPLTKDNHLLGTFDLTGIPAPRGVPQIEVTFEIDVNGILRVTAEDKGTGNKNKITITNDQNRLTPEEI
ERMVNDAEKFAEEDKCLKERIDTRNELESYAYSLKNQIGDKEKLGKLSSEDKETMEKAVEEKIEWLQDADIED
FKAKKKELEEIVQPIISKLYGSAGPPPTGEEDTAEKDEL

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

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.