

Heat Shock 70kDa protein 5 (19-654 a.a.) Human Recombinant

Item Number	rAP-3421
Synonyms	78 kDa glucose-regulated protein, GRP-78, Endoplasmic reticulum lumenal Ca(2+)-binding protein grp78, Heat shock 70 kDa protein 5, Immunoglobulin heavy chain-binding protein, BiP, HSPA5, GRP78, MIF2, FLJ26106.
Description	HSPA5 (19-654) Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 659 amino acids (19-654) and having a molecular mass of 72.9kDa. HSPA5 (19-654) is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
Uniprot Accession Number	P11021
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSEEDKKE DVGTVVGIDL GTTYSCVGVF KNGRVEIIAN DQGNRIT- PSY VAFTPEGERL IGDAAKNQLT SNPENTVFDA KRLIGRTWND PSVQQDIKFL PFKVVEKKT PYIQVDIGGG QTKTFAPEEI SAMVLTKMKE TAEAYLGKKV THAVVTPPAY FNDAQRQATK DAGTIA- GLNV MRIINEPTAA AIAYGLDKRE GEKNILVFDL GGGTFDVSL TIDNGVFEVV ATNGDTHLGG EDFDQVRMEH FIKLYKKKTG KDVRKDNRAV QKLRREVEKA KRALSSQHQQA RIEIESFYEG EDFSETLTRA KFEELNMDLF RSTMKPVQKV LEDSDLKKSD IDEIVLVGGS TRIPKIQQLV KEFFNGKEPS
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered clear solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Formulation and Purity	The HSPA5 (19-654) solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 20% glycerol. Greater than 90% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**