

BIP, 20-650aa, Human, His tag, Hi-5 Cell

Cat.NO.: TP01340

3th Edition

Synonyms: Binding immunoglobulin protein, HSPA5 (heat shock 70kDa protein 5), GRP78 (glucose-regulated protein, 78kD), MIF2.

Description: Binding immunoglobulin protein (BiP) belongs to the family of ~70 kDa heat shock proteins (HSP 70). It is a stress response protein which is induced by agents or conditions that adversely affect endoplasmic reticulum (ER) function. This protein is essential for the proper glycosylation, folding as well as for the maintenance of cell homeostasis and the prevention of apoptosis.

Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 200mM NaCl

Molecular Weight: 71kDa (640aa)

Sequences:

MEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIANDQGNRITPSYVAFTPEGERLIGDAAKNQLTSNPENTVFDA
KRLIGRTWNDPSVQQDIKFLPFKVVEKKTTPYIQVDIGGGQTKTFAPEEISAMVLTKMKETAAYLGKKVTHAVVTVP
AYFNDAQRQATKDAGTIAGLNVMRIINEPTAAAIAYGLDKREGEKNILVFDLGGGTFDVSLLTIDNGVFEVVATNGDT
HLGGEDFDQRVMEHFIKLYKKKTGKDVRKDNRAVQKLRREVEKAKRALSSQHARIEIESFYEGEDFSETLTRAKF
EELNMDLFRSTMKPVQKVLESDLKKSIDEIVLVGGSTRIPKIQQLVKEFFNGKEPSRGINPDEAVAYGAAVQAGV
LSGDQDTGDLVLLDVCPLTLGIETVGGVMTKLIPRNTVVPTKKSQIFSTASDNQPTVTIKVYEGERPLTKDNHLLGTF
DLTGIPPAPRGVPQIEVTFEIDVNGILRVTAEDKGTGNKNKITITNDQNRLTPEEIERMVNDAEKFAEEDKCLKKERIDT
RNELESYAYSLKNQIGDKEKLGKLSSEDKETMEKAVEEKIEWLESHQDADIEDFKAKKKELEEIVQPIISKLYGSAG
PPPTGEEDTAELEHHHHHHH

Purity: > 95% by HPLC

Concentration: 1mg/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.