

HSP90B1(GRP94), 22-803aa, Human, His-tagged, Recombinant, E.coli

Cat.NO.: TP02528

3th Edition

Synonyms:94 kDa glucose-regulated protein, HSP90B1, GP96, TRA1, Tumor rejection antigen 1

Description:GRP94, also known as Heat shock protein 90kDa beta, member 1 (HSP90B1), is an abundant resident endoplasmic reticulum (ER) lumenal stress protein which together with cytosolic Hsp90 belongs to the Hsp90 family of molecular chaperones. It plays an important role in maintaining protein homeostasis in the secretory pathway. Also, GRP94 can function in the intracellular trafficking of peptides from the extracellular space to the MHC class I antigen processing pathway of antigen presentation cells.

Form:Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT,1 mM EDTA, 0.1 M NaCl, 10% glycerol

Molecular Weight:94.4 kDa (819aa)

Sequences:

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSMDDEVDVDGTVEEDLGKSREGSRTDDEVVQREEEA
IQLDGLNASQIRELREKSEKFAFQAEVNRMMKLIINSLYKNKEIFLRELISNASDALDKIRLISLTDENALSGNEELTVKI
KCDKEKNLLHVTDGTGVMTREELVKNLGTIAKSGTSEFLNKMTEAQEDGQSTSELIGQFGVGFYSAFLVADKIVITS
KHNDTQHIWESDSNEFSVIADPRGNTLGRGTTITLVLKEEASDYLELDTIKNLVKKYSQFINFPIYVWSSKTETVEEP
MEEEEAAKEEKEESDDEAAVEEEEEEEKPKTKKVEKTVWDWELMNDIKPIWQRPSKEVEEDEYKAFYKFSKESD
DPMAYIHFTAEGEVTFKSILFVPTSAPRGLFDEYGSKSDYIKLYVRRVITDDFHDMMPKYLNFKGVVDSDDLPLN
VSRETLQQHKLLKVIKRLVRKTLDMIKKIADDKYNDTFWKEFGTNIKLGVEDHSNRTRLAKLLRFQSSHPTDITSL
DQYVERMKEKQDKIYFMAGSSRKEAESSPFVERLLKGYEVIYLTPEVDEYCIQALPEFDGKRFQNVAKEGVKFDE
SEKTKESREAVEKEFEPLLNWMKDKALKDKIEKAVVSQRLTESPCALVASQYGWSGNMERIMKAQAYQTGKDIST
NYYASQKKTFEINPRHPLIRDMLRRIKEDDDKTVLDLAVVLFETATLRSGYLLPDTKAYGDRIERMLRSLNIDPDAK
VEEPEEEPEETAEDTTEDTEQDEDEEMDVGTDDEEETAKESTA EKDEL

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.