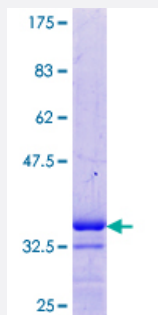


HSPA5 (Human) Recombinant Protein (Q01)

Catalog # H00003309-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human HSPA5 partial ORF (AAH20235.1, 269 a.a. - 354 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	LYKKKTGKDVRKDNRAVQKLRRREVEKAKRALSSQHQARIEIESFYEGEDFSETLTRAKFEELNMD LFRSTMKPVQKVLEDSLKKS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	35.2
Interspecies Antigen Sequence	Mouse (99); Rat (99)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — HSPA5

Entrez GeneID [3309](#)

GeneBank Accession# [BC020235](#)

Protein Accession# [AAH20235.1](#)

Gene Name HSPA5

Gene Alias BIP, FLJ26106, GRP78, MIF2

Gene Description heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)

Omim ID [138120](#)

Gene Ontology [Hyperlink](#)

Gene Summary When Chinese hamster K12 cells are starved of glucose, the synthesis of several proteins, called glucose-regulated proteins (GRPs), is markedly increased. Hendershot et al. (1994) [PubMed 80 20977] pointed out that one of these, GRP78 (HSPA5), also referred to as 'immunoglobulin heavy chain-binding protein' (BiP), is a member of the heat-shock protein-70 (HSP70) family and is involved in the folding and assembly of proteins in the endoplasmic reticulum (ER). Because so many ER proteins interact transiently with GRP78, it may play a key role in monitoring protein transport through the cell.[supplied by OMIM]

Other Designations Heat-shock 70kD protein-5 (glucose-regulated protein, 78kD)|OTTHUMP00000022124|heat shock 70kD protein 5 (glucose-regulated protein, 78kD)|heat shock 70kDa protein 5

Pathway

- [Antigen processing and presentation](#)
- [Prion diseases](#)

Disease

- [Alzheimer disease](#)
- [Bipolar Disorder](#)
- [Carcinoma](#)
- [Cognition](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis B](#)
- [Infection](#)
- [Kidney Failure](#)
- [Liver Neoplasms](#)
- [Parkinson disease](#)
- [Schizophrenia](#)
- [Stress](#)