

Datasheet for ABIN7554117
HSPA2 Protein (AA 1-639) (His tag)



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Overview

Quantity:	1 mg
Target:	HSPA2
Protein Characteristics:	AA 1-639
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HSPA2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant HSPA2 Protein expressed in mammalian cells.
Sequence:	MSARGPAIGI DLGTTYSCVG VFQHGKVEII ANDQGNRTTP SYVAFTDTER LIGDAAKNQV AMNPTNTIFD AKRLIGRKFE DATVQSDMKH WPFRVSEGG KPKVQVEYKG ETKTFFPEEI SSMVLTKMKE IAEAYLGGKV HSAVITVPAY FNDSQRQATK DAGTITGLNV LRIINEPTAA AIAYGLDKKG CAGGEKNVLI FDLGGGTFDV SILTIEDGIF EVKSTAGDTH LGGEDFDNRM VSHLAEFVKR KHKKDIGPNK RAVRRLRTAC ERAKRTLSSS TQASIEIDSL YEGVDFYTSI TRARFEELNA DLFRGTLEPV EKALRDAKLD KGQIQEIVLV GGSTRIPKIQ KLLQDFFNGK ELNKSINPDE AVAYGAAVQA AILIGDKSEN VQDLLLLDVT PLSLGIETAG GVMTPLIKRN TTIPTKQTQT FTTYSDNQSS VLVQVYEGER AMTKDNNLLG KFDLTGIPPA PRGVPQIEVT FDIDANGILN VTAADKSTGK ENKITITNDK GRLSKDDIDR MVQEAERYKS EDEANRDRVA AKNALESYTY NIKQTVEDEK LRGKISEQDK NKILDKCQEV INWLDRNQMA EKDEYEHKQK ELERVCNPII SKLYQGGPGG GSGGGGSGAS GGPTIEEVD Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity

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of the protein could make another tag necessary. In case you have a special request, please contact us.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: HSPA2

Alternative Name: HSPA2 ([HSPA2 Products](#))

Background: Heat shock-related 70 kDa protein 2 (Heat shock 70 kDa protein 2),FUNCTION: Molecular chaperone implicated in a wide variety of cellular processes, including protection of the proteome from stress, folding and transport of newly synthesized polypeptides, activation of proteolysis of misfolded proteins and the formation and dissociation of protein complexes. Plays a pivotal role in the protein quality control system, ensuring the correct folding of proteins, the re-folding of misfolded proteins and controlling the targeting of proteins for subsequent degradation. This is achieved through cycles of ATP binding, ATP hydrolysis and ADP release, mediated by co-chaperones. The affinity for polypeptides is regulated by its nucleotide bound state. In the ATP-bound form, it has a low affinity for substrate proteins. However, upon

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hydrolysis of the ATP to ADP, it undergoes a conformational change that increases its affinity for substrate proteins. It goes through repeated cycles of ATP hydrolysis and nucleotide exchange, which permits cycles of substrate binding and release (PubMed:26865365). Plays a role in spermatogenesis. In association with SHCBP1L may participate in the maintenance of spindle integrity during meiosis in male germ cells (By similarity).

{ECO:0000250|UniProtKB:P17156, ECO:0000303|PubMed:26865365}.

Molecular Weight: 70.0 kDa

UniProt: [P54652](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months