

Datasheet for ABIN7554125
HSPA6 Protein (AA 1-643) (His tag)



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Overview

Quantity:	1 mg
Target:	HSPA6
Protein Characteristics:	AA 1-643
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HSPA6 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat HSPA6 Protein expressed in mammalian cells.
Sequence:	<p>MQAPRELAVG IDLGTTYSCV GVFFQQGRVEI LANDQGNRTT PSYVAFTDTE RLVGDAAKSQ</p> <p>AALNPHNTVF DAKRLIGRKF ADTTVQSDMK HWPFRVVSEG GKPKVRVCYR GEDKTFYPEE</p> <p>ISSMVLKMK ETAEAYLGQP VKHAVITVPA YFNSQRQAT KDAGAIAGLN VLRIINEPTA</p> <p>AAIAYGLDRR GAGERNVLIF DLGGGTFDVS VLSIDAGVFE VKATAGDTHL GGEDFDNRLV</p> <p>NHFMEEFRRK HGKDLSGNKR ALRRLRTACE RAKRTLSSST QATLEIDSLF EGVDFYTSIT</p> <p>RARFEELCSD LFRSTLEPVE KALRDAKLDK AQIHDVVLVG GSTRIKPVQK LLQDFFNGKE</p> <p>LNKSINPDEA VAYGAAVQAA VLMGDKCEKV QDLLLLDVAP LSLGLETAGG VMTTLIQRNA</p> <p>TIPTKQTQTF TTYSDNQPGV FIQVYEGERA MTKDNNLLGR FELSGIPPAP RGVPQIEVTF</p> <p>DIDANGILSV TATDRSTGKA NKITITNDKG RLSKEEVERM VHEAEQYKAE DEAQRDRVAA</p> <p>KNSLEAHVFH VKGSLQEEESL RDKIPEEDRR KMQDKCREVL AWLEHNQLAE KEEYEHQKRE</p> <p>LEQICRPIFS RLYGGPGVPG GSSCGTQARQ GDPSTGPIIE EVD Sequence without tag. The</p>

proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	HSPA6
Alternative Name:	HSPA6 (HSPA6 Products)
Background:	Heat shock 70 kDa protein 6 (Heat shock 70 kDa protein B'),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 hydrolysis of the ATP to ADP, it undergoes a conformational change that increases its affinity for substrate proteins. It

Target Details

	goes through repeated cycles of ATP hydrolysis and nucleotide exchange, which permits cycles of substrate binding and release (PubMed:26865365). {ECO:0000303 PubMed:26865365}.
Molecular Weight:	71.0 kDa
UniProt:	P17066

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. 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