

Datasheet for ABIN7547133
DNAJB12 Protein (AA 1-375) (His tag)



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Overview

Quantity:	1 mg
Target:	DNAJB12
Protein Characteristics:	AA 1-375
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DNAJB12 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant DNAJB12 Protein expressed in mammalian cells.
Sequence:	MESNKDEAER CISIALKAIQ SNQPDRALRF LEKAQRLYPT PRVRALIESL NQKPQTAGDQ PPPTDTTHAT HRKAGGTDAP SANGEAGGES TKGYTAEQVA AVKRVKQCKD YYEILGVSRG ASDEDLKKAY RRLALKFHPD KNHAPGATEA FKAIGTAYAV LSNPEKQY DQFGDDKSQA ARHGHGHGDF HRGFEADISP EDLFNMFFGG GFPSSNVHVY SNGRMRYTYQ QRQDRRDNQG DGGLGVFVQL MPILILILVS ALSQLMVSSP PYSLSRPSV GHIHRRVTDH LGVWVYVGD FSEETGSSL KTVERNVEDD YIANLRNNCW KEKQQKEGLL YRARYFGD TD MYHRAQKMGT PSCSRLSEVQ ASLHG Sequence without tag. The 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.
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:

Product Details

- 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:	DNAJB12
Alternative Name:	DNAJB12 (DNAJB12 Products)
Background:	<p>DnaJ homolog subfamily B member 12,FUNCTION: Acts as a co-chaperone with HSPA8/Hsc70, required to promote protein folding and trafficking, prevent aggregation of client proteins, and promote unfolded proteins to endoplasmic reticulum-associated degradation (ERAD) pathway (PubMed:21150129, PubMed:21148293). Acts by determining HSPA8/Hsc70's ATPase and polypeptide-binding activities (PubMed:21148293). Can also act independently of HSPA8/Hsc70: together with DNAJB14, acts as a chaperone that promotes maturation of potassium channels KCND2 and KCNH2 by stabilizing nascent channel subunits and assembling them into tetramers (PubMed:27916661). While stabilization of nascent channel proteins is dependent on HSPA8/Hsc70, the process of oligomerization of channel subunits is independent of HSPA8/Hsc70 (PubMed:27916661). When overexpressed, forms membranous structures together with DNAJB14 and HSPA8/Hsc70 within the nucleus, the role of these structures, named DJANGOs, is still unclear (PubMed:24732912).</p> <p>{ECO:0000269 PubMed:21148293, ECO:0000269 PubMed:21150129, ECO:0000269 PubMed:24732912, ECO:0000269 PubMed:27916661}, FUNCTION: (Microbial</p>

Target Details

infection) In case of infection by polyomavirus, involved in the virus endoplasmic reticulum membrane penetration and infection (PubMed:21673190, PubMed:24675744).
{ECO:0000269|PubMed:21673190, ECO:0000269|PubMed:24675744}.

Molecular Weight: 41.9 kDa

UniProt: [Q9NXW2](#)

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