Datasheet for ABIN7556074

YME1L1 Protein (AA 1-773) (His tag)

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Overview

Quantity:	1 mg
Target:	YME1L1
Protein Characteristics:	AA 1-773
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This YME1L1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant YME1L1 Protein expressed in mammalian cells.
Sequence:	MFSLSSTVQP QVTVPLSHLI NAFHTPKNTS VSLSGVSVSQ NQHRDVVPEH EAPSSECMFS DFLTKLNIVS IGKGKIFEGY RSMFMEPAKR MKKSLDTTDN WHIRPEPFSL SIPPSLNLRD LGLSELKIGQ IDQLVENLLP GFCKGKNISS HWHTSHVSAQ SFFENKYGNL DIFSTLRSSC LYRHHSRALQ SICSDLQYWP VFIQSRGFKT LKSRTRRLQS TSERLAETQN IAPSFVKGFL LRDRGSDVES LDKLMKTKNI PEAHQDAFKT GFAEGFLKAQ ALTQKTNDSL RRTRLILFVL LLFGIYGLLK NPFLSVRFRT TTGLDSAVDP VQMKNVTFEH VKGVEEAKQE LQEVVEFLKN PQKFTILGGK LPKGILLVGP PGTGKTLLAR AVAGEADVPF YYASGSEFDE MFVGVGASRI RNLFREAKAN APCVIFIDEL DSVGGKRIES PMHPYSRQTI NQLLAEMDGF KPNEGVIIIG ATNFPEALDN ALIRPGRFDM QVTVPRPDVK GRTEILKWYL NKIKFDQSVD PEIIARGTVG FSGAELENLV NQAALKAAVD GKEMVTMKEL EFSKDKILMG PERRSVEIDN KNKTITAYHE SGHAIIAYYT KDAMPINKAT IMPRGPTLGH VSLLPENDRW NETRAQLLAQ MDVSMGGRVA EELIFGTDHI TTGASSDFDN ATKIAKRMVT KFGMSEKLGV MTYSDTGKLS PETQSAIEQE

Product Details

	IRILLRDSYE RAKHILKTHA KEHKNLAEAL LTYETLDAKE IQIVLEGKKL EVR **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: • 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:	YME1L1
Alternative Name:	YME1L1 (YME1L1 Products)
Background:	ATP-dependent zinc metalloprotease YME1L1 (EC 3.4.24.-) (ATP-dependent metalloprotease FtsH1) (Meg-4) (Presenilin-associated metalloprotease) (PAMP) (YME1-like protein 1),FUNCTION: ATP-dependent metalloprotease that catalyzes the degradation of folded and unfolded proteins with a suitable degron sequence in the mitochondrial intermembrane region (PubMed:26923599, PubMed:27786171). Plays an important role in regulating mitochondrial morphology and function by cleaving OPA1 at position S2, giving rise to a form of OPA1 that promotes maintenance of normal mitochondrial structure and mitochondrial protein

Target Details

	metabolism (PubMed:18076378, PubMed:26923599, PubMed:27495975). Ensures cell proliferation, maintains normal cristae morphology and complex I respiration activity, promotes antiapoptotic activity and protects mitochondria from the accumulation of oxidatively damaged membrane proteins (PubMed:22262461). Required for normal, constitutive degradation of PRELID1 (PubMed:27495975). Catalyzes the degradation of OMA1 in response to membrane depolarization (PubMed:26923599). Required to control the accumulation of nonassembled respiratory chain subunits (NDUFB6, OX4 and ND1) (PubMed:22262461). {ECO:0000269|PubMed:18076378, ECO:0000269|PubMed:22262461, ECO:0000269|PubMed:26923599, ECO:0000269|PubMed:27495975, ECO:0000269|PubMed:27786171}.
Molecular Weight:	86.5 kDa
UniProt:	Q96TA2

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