重组人YMEL1蛋白

Recombinant YMEL1 protein (His tag)

目录号 Catalog Number	538780
同用名 Synonyms	ATP-dependent metalloprotease FtsH1; Meg-4; Presenilin-associated metalloprotease; PAMP; YME1-like protein 1
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	Q96TA2
分子量 Molecular Weight	Predictes a molecular mass of 52.31 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 55.25 kDa band.

产品信息

氨基酸序列 Amino Acid Sequence	MSKIKHHHHH HGGSRFRTTT GLDSAVDPVQ MKNVTFEHVK GVEEAKQELQ EVVEFLKNPQ KFTILGGKLP KGILLVGPPG TGKTLLARAV AGEADVPFYY ASGSEFDEMF VGVGASRIRN LFREAKANAP CVIFIDELDS VGGKRIESPM HPYSRQTINQ LLAEMDGFKP NEGVIIIGAT NFPEALDNAL IRPGRFDMQV TVPRPDVKGR TEILKWYLNK IKFDQSVDPE IIARGTVGFS GAELENLVNQ AALKAAVDGK EMVTMKELEF SKDKILMGPE RRSVEIDNKN KTITAYHESG HAIIAYYTKD AMPINKATIM PRGPTLGHVS LLPENDRWNE TRAQLLAQMD VSMGGRVAEE LIFGTDHITT GASSDFDNAT KIAKRMVTKF GMSEKLGVMT YSDTGKLSPE TQSAIEQEIR ILLRDSYERA KHILKTHAKE HKNLAEALLT YETLDAKEIQ IVLEGKKLEV R
性状 Form	冻干粉末 Lyophilized powder
组分 Formulation	Lyophilized from sterile PBS, pH 7.4
纯度 Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
内毒素 Endotoxin	Not tested.
活性 Activity	Not tested.
稳定性 Stability	Samples are stable for up to twelve months from date of receipt at -70℃
蛋白构建 Protein Construction	DNA encoding 317-773 aa (Q96TA2) were fused with N-terminal 6His tag.

保存与运输

复溶 Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
储存 Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
运输 Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

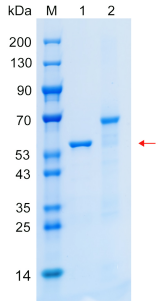
功能描述

研究背景 Background

This recombinant protein product features a stable and soluble 457-amino acid fragment (residues 317-773) of human ATP-dependent zinc metalloprotease YME1L1, designed for structural and biochemical studies. YME1L1 is a key mitochondrial enzyme involved in protein degradation and mitochondrial quality control, making this fragment an essential tool for investigating its mechanisms and interactions.
YME1L1 is an ATP-dependent metalloprotease located in the mitochondrial inner membrane, crucial for maintaining mitochondrial integrity and function. It degrades both folded and unfolded proteins within the mitochondrial intermembrane space, playing a vital role in regulating mitochondrial morphology by cleaving OPA1 to support normal structure and protein metabolism. The enzyme ensures cell proliferation, maintains cristae morphology, and promotes antiapoptotic activity by controlling the accumulation of nonassembled respiratory chain subunits and oxidatively damaged proteins. Additionally, YME1L1 adapts m

验证数据

SDS-PAGE



Recombinant YMEL1 protein (His tag) SDS-PAGE
M: Marker; Lane 1: YMEL1; Lane 2: BSA