

Datasheet for ABIN7563206

Dynamin 1 Protein (DNM1) (AA 1-867) (His tag)



Overview

Quantity:	1 mg
Target:	Dynamin 1 (DNM1)
Protein Characteristics:	AA 1-867
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Dynamin 1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details	
Purpose:	Custom-made recombinat Dnm1 Protein expressed in mammalien cells.
Sequence:	MGNRGMEDLI PLVNRLQDAF SAIGQNADLD LPQIAVVGGQ SAGKSSVLEN FVGRDFLPRG
	SGIVTRRPLV LQLVNSTTEY AEFLHCKGKK FTDFEEVRLE IEAETDRVTG TNKGISPVPI
	NLRVYSPHVL NLTLVDLPGM TKVPVGDQPP DIEFQIRDML MQFVTKENCL ILAVSPANSD
	LANSDALKIA KEVDPQGQRT IGVITKLDLM DEGTDARDVL ENKLLPLRRG YIGVVNRSQK
	DIDGKKDITA ALAAERKFFL SHPSYRHLAD RMGTPYLQKV LNQQLTNHIR DTLPGLRNKL
	QSQLLSIEKE VDEYKNFRPD DPARKTKALL QMVQQFAVDF EKRIEGSGDQ IDTYELSGGA
	RINRIFHERF PFELVKMEFD EKELRREISY AIKNIHGIRT GLFTPDMAFE TIVKKQVKKI
	REPCLKCVDM VISELISTVR QCTKKLQQYP RLREEMERIV TTHIREREGR TKEQVMLLID
	IELAYMNTNH EDFIGFANAQ QRSNQMNKKK TSGNQDEILV IRKGWLTINN IGIMKGGSKE
	YWFVLTAENL SWYKDDEEKE KKYMLSVDNL KLRDVEKGFM SSKHIFALFN TEQRNVYKDY
	RQLELACETQ EEVDSWKASF LRAGVYPERV GDKEKASETE ENGSDSFMHS MDPQLERQVE

TIRNLVDSYM AIVNKTVRDL MPKTIMHLMI NNTKEFIFSE LLANLYSCGD QNTLMEESAE QAQRRDEMLR MYHALKEALS IIGDINTTTV STPMPPPVDD SWLQVQSVPA GRRSPTSSPT PQRRAPAVPP ARPGSRGPAP GPPPAGSALG GAPPVPSRPG ASPDPFGPPP QVPSRPNRAP PGVPSLGAWR LNSPQGKHEN RAGKARL 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.

Characteristics:

Key Benefits:

- Made to order protein from design to production by highly experienced protein experts.
- · Protein expressed in mammalien 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, Western Blot

Grade:

Target:

custom-made

Dynamin 1 (DNM1)

Target Details

Alternative Name:	Dnm1 (DNM1 Products)	
Background:	Dynamin-1 (EC 3.6.5.5) (Dynamin) (Dynamin I),FUNCTION: Catalyzes the hydrolysis of GTP and	
	utilizes this energy to mediate vesicle scission and participates in many forms of endocytosis,	
	such as clathrin-mediated endocytosis or synaptic vesicle endocytosis as well as rapid	
	endocytosis (RE). Associates to the membrane, through lipid binding, and self-assembles into	
	rings and stacks of interconnected rings through oligomerization to form a helical polymer	
	around the vesicle membrane leading to constriction of invaginated coated pits around their	

necks. Self-assembly of the helical polymer induces membrane tubules narrowing until the polymer reaches a length sufficient to trigger GTP hydrolysis. Depending on the curvature imposed on the tubules, membrane detachment from the helical polymer upon GTP hydrolysis can cause spontaneous hemifission followed by complete fission. May play a role in regulating early stages of clathrin-mediated endocytosis in non-neuronal cells through its activation by dephosphorylation via the signaling downstream of EGFR (By similarity). Controls vesicle size at a step before fission, during formation of membrane pits, at hippocampal synapses (PubMed:35220002). Controls plastic adaptation of the synaptic vesicle recycling machinery to high levels of activity (PubMed:35220002). Mediates rapid endocytosis (RE), a Ca(2+)-dependent and clathrin- and K(+)-independent process in chromaffin cells. Microtubule-associated force-producing protein involved in producing microtubule bundles and able to bind and hydrolyze GTP (By similarity). Through its interaction with DNAJC6, acts during the early steps of clathrin-coated vesicle (CCV) formation (By similarity). {ECO:0000250|UniProtKB:Q05193, ECO:0000250|UniProtKB:Q08DF4, ECO:0000269|PubMed:35220002}.

Molecular Weight: 97.8 kDa

UniProt: P39053

Pathways: Toll-Like Receptors Cascades, CXCR4-mediated Signaling Events, Thromboxane A2 Receptor

Toll-Like Receptors Cascades, CXCR4-mediated Signaling Events, Thromboxane A2 Receptor Signaling

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.

ш	Jand	lina
г	land	1111()
•	10110	9

Expiry Date:

12 months