

Datasheet for ABIN7561997
TTLL8 Protein (AA 1-832) (His tag)



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Overview

Quantity:	1 mg
Target:	TTLL8
Protein Characteristics:	AA 1-832
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TTLL8 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Ttl8 Protein expressed in mammalien cells.
Sequence:	<p>MSCPPTPNPP FRPPSHTRVL RTPPLPPWVC LNSKSLSTGV GGQKNQLREA SMENGERKKL SSTLSDGDHK EENKCLKQGIP QDLSSSPKLD RYKIARQLTE KAIKERKIFS IYGHYPVIRA TLRRKGWVEK KFNFFPKALQ NLGSEDKSAE TKENQEIALE RFDDIHDVMS RLVKNEIPYL LWTIKRDVVD YHSLTCDQML NHYGKTASFT TKIGLCLNMR SLPWVYQANP NTFPPRCYGL CTESEKQEFL DDFRRTVAAS ILKWWVLHQN YCSKVKGKSK KEEAKNSDPS PKKDPENPDL KLPSLSGQVV DTACKVCQAY LGQLEHEDID VSEASTEALS EEEWNDLTQQ YLLLVHGNAS ITDSKSYFAQ CQALLSKISS VNPQTEIDGI RNIWIIPAA KSRGRDIVCM DRVENILSLV AADSQTTKDN KVVVQKYIET PMLIYDTKFD IRQWFLVTDW NPLTIWYFKE SYLRFSTQRF SLDKLDSAIH LCNNSIQRRL KNDKERSPLL PCHNMWTSTR FQEYLQKRGR GGTWGSIIYP SMKRAVTNAM RVAQDHVEAR KNSFELYGAD FILGRDFKPW LIEINSSPTM HPSTPVTAQL CAQVQEDTIK VVDRKLDNRN CDIGNFELLW RQPAVELPPF NGS DLCVEGI SVKKAKKQMP</p>

Product Details

PIASVGLSES LLDAPPKQRS ARALMETVIR PPRTTVRQDW KREEAKVLST TWSMPVMDAE
VRGRAKPIYA FEVNDYQHVD NKSHKSGYTR VQSSKVPQVT LTSAQHPALF AQTMKPTQMT
SSPPPTASGN HRDSSPFCPI VFEELWLHPN SQRRPSSCIL QSRAQGWIRG IP **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 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, Western Blot

Grade:

custom-made

Target Details

Target:

TTLL8

Alternative Name:

Ttll8 ([TTLL8 Products](#))

Background:

Protein monoglycylase TTLL8 (EC 6.3.2.-) (Tubulin--tyrosine ligase-like protein 8),FUNCTION: Monoglycylase which modifies both tubulin and non-tubulin proteins, adding a single glycine on the gamma-carboxyl groups of specific glutamate residues to generate monoglycine side chains within the C-terminal tail of target proteins (PubMed:19524510, PubMed:28576883). Not involved in elongation step of the polyglycylation reaction (PubMed:19524510). Preferentially monoglycylates alpha-tubulin over beta-tubulin (PubMed:19524510). Together with TTLL3, mediates microtubule glycylation of primary and motile cilia, which is essential for their stability

Target Details

and maintenance (PubMed:19524510, PubMed:23897886, PubMed:25180231). Together with TTL3, glycyates sperm flagella which regulates axonemal dynein motor activity, thereby controlling flagellar beat, directional sperm swimming and male fertility (PubMed:33414192). Monoglycyates non-tubulin proteins such as ANP32A, ANP32B, SET, NCL and NAP1 (PubMed:19524510, PubMed:19427864). {ECO:0000269|PubMed:19427864, ECO:0000269|PubMed:19524510, ECO:0000269|PubMed:23897886, ECO:0000269|PubMed:25180231, ECO:0000269|PubMed:28576883, ECO:0000269|PubMed:33414192}.

Molecular Weight: 94.9 kDa

UniProt: [A4Q9F1](#)

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