

Datasheet for ABIN7555888

TTLL3 Protein (AA 1-772) (His tag)



Overview

Quantity:	1 mg
Target:	TTLL3
Protein Characteristics:	AA 1-772
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TTLL3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TTLL3 Protein expressed in mammalian cells.
Sequence:	MNRLRNAKIY VERAVKQKKI FTIQGCYPVI RCLLRRRGWV EKKMVHRSGP TLLPPQKDLD
	SSAMGDSDTT EDEDEDEEE FQPSQLFDFD DLLKFDDLDG THALMVGLCL NLRNLPWFDE
	VDANSFFPRC YCLGAEDDKK AFIEDFWLTA ARNVLKLVVK SEWKSYPIQA VEEEASGDKQ
	PKKQEKNPVL VSPEFVDEAL CACEEYLSNL AHMDIDKDLE APLYLTPEGW SLFLQRYYQV
	VHEGAELRHL DTQVQRCEDI LQQLQAVVPQ IDMEGDRNIW IVKPGAKSRG RGIMCMDHLE
	EMLKLVNGNP VVMKDGKWVV QKYIERPLLI FGTKFDLRQW FLVTDWNPLT VWFYRDSYIR
	FSTQPFSLKN LDNSVHLCNN SIQKHLENSC HRHPLLPPDN MWSSQRFQAH LQEMGAPNAW
	STIIVPGMKD AVIHALQTSQ DTVQCRKASF ELYGADFVFG EDFQPWLIEI NASPTMAPST
	AVTARLCAGV QADTLRVVID RMLDRNCDTG AFELIYKQPA VEVPQYVGIR LLVEGFTIKK
	PMAMCHRRMG VRPAVPLLTQ RGSGEARHHF PSLHTKAQLP SPHVLRHQGQ VLRRQHSKLV
	GTKALSTTGK ALRTLPTAKV FISLPPNLDF KVAPSILKPR KAPALLCLRG PQLEVPCCLC
	PLKSEQFLAP VGRSRPKANS RPDCDKPRAE ACPMKRLSPL KPLPLVGTFQ RRRGLGDMKL

	GKPLLRFPTA LVLDPTPNKK KQVKYLGLDS IAVGGSRVDG ARPCTPGSTA RA Sequence withou
	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	
	TTILO
Target:	TTLL3
Alternative Name:	TTLL3 (TTLL3 Products)
Background:	Tubulin monoglycylase TTLL3 (EC 6.3.2) (HOTTL) (Tubulintyrosine ligase-like protein
	3),FUNCTION: Monoglycylase which modifies alpha- and beta-tubulin, adding a single glycine
	on the gamma-carboxyl groups of specific glutamate residues to generate monoglycine side
	chains within the C-terminal tail of tubulin. Not involved in elongation step of the polyglycylation
	reaction (By similarity). Preferentially glycylates a beta-tail peptide over the alpha-tail, although
	shifts its preference toward alpha-tail as beta-tail glutamylation increases (By similarity).
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creating an anticorrelation between glycylation and glutamylation reactions (By similarity). Together with TTLL8, mediates microtubule glycylation of primary and motile cilia, which is essential for their stability and maintenance (By similarity). Involved in microtubule glycylation of primary cilia in colon which controls cell proliferation of epithelial cells and plays an essential role in colon cancer development (PubMed:25180231). Together with TTLL8, glycylates sperm flagella which regulates axonemal dynein motor activity, thereby controlling flagellar beat, directional sperm swimming and male fertility (By similarity). {ECO:0000250|UniProtKB:A4Q9E5, ECO:0000250|UniProtKB:B2GUB3, ECO:0000269|PubMed:25180231}.

Molecular Weight:

87.4 kDa

UniProt:

09Y4R7

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

12 months

Handling

Expiry Date:

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.