Datasheet for ABIN7555850

TTLL7 Protein (AA 1-887) (His tag)

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Overview

Quantity:	1 mg
Target:	TTLL7
Protein Characteristics:	AA 1-887
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TTLL7 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TTLL7 Protein expressed in mammalian cells.
Sequence:	MPSLPQEGVI QGPSPLDLNT ELPYQSTMKR KVRKKKKKGT ITANVAGTKF EIVRLVIDEM GFMKTPDEDE TSNLIWCDSA VQQEKISELQ NYQRINHFPG MGEICRKDFL ARNMTKMIKS RPLDYTFVPR TWIFPAEYTQ FQNYVKELKK KRKQKTFIVK PANGAMGHGI SLIRNGDKLP SQDHLIVQEY IEKPFLMEGY KFDLRIYILV TSCDPLKIFL YHDGLVRMGT EKYIPPNESN LTQLYMHLTN YSVNKHNEHF ERDETENKGS KRSIKWFTEF LQANQHDVAK FWSDISELVV KTLIVAEPHV LHAYRMCRPG QPPGSESVCF EVLGFDILLD RKLKPWLLEI NRAPSFGTDQ KIDYDVKRGV LLNALKLLNI RTSDKRRNLA KQKAEAQRRL YGQNSIKRLL PGSSDWEQQR HQLERRKEEL KERLAQVRKQ ISREEHENRH MGNYRRIYPP EDKALLEKYE NLLAVAFQTF LSGRAASFQR ELNNPLKRMK EEDILDLLEQ CEIDDEKLMG KTTKTRGPKP LCSMPESTEI MKRPKYCSSD SSYDSSSSSS ESDENEKEEY QNKKREKQVT YNLKPSNHYK LIQQPSSIRR SVSCPRSISA QSPSSGDTRP FSAQQMISVS RPTSASRSHS LNRASSYMRH LPHSNDACST NSQVSESLRQ LKTKEQEDDL TSQTLFVLKD MKIRFPGKSD AESELLIEDI IDNWKYHKTK

Product Details

	VASYWLIKLD SVKQRKVLDI VKTSIRTVLP RIWKVPDVEE VNLYRIFNRV FNRLLWSRGQ GLWNCFCDSG SSWESIFNKS PEVVTPLQLQ CCQRLVELCK QCLLVVYKYA TDKRGSLSGI GPDWGNSRYL LPGSTQFFLR TPTYNLKYNS PGMTRSNVLF TSRYGHL **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:	TTLL7
Alternative Name:	TTLL7 (TTLL7 Products)
Background:	Tubulin polyglutamylase TTLL7 (EC 6.3.2.-) (Testis development protein NYD-SP30) (Tubulin--tyrosine ligase-like protein 7),FUNCTION: Polyglutamylase which modifies tubulin, generating polyglutamate side chains of variable lengths on the gamma-carboxyl group of specific glutamate residues within the C-terminal tail of tubulin (PubMed:16901895, PubMed:25959773). Mediates both ATP-dependent initiation and elongation steps of the

Target Details

	polyglutamylation reaction (PubMed:16901895, PubMed:25959773). Preferentially modifies the beta-tubulin tail over an alpha-tail (PubMed:16901895, PubMed:25959773). Competes with monoglycylase TTLL3 for modification site on beta-tubulin substrate, thereby creating an anticorrelation between glycylation and glutamylation reactions (By similarity). Required for neurite growth, responsible for the strong increase in tubulin polyglutamylation during postnatal neuronal maturation (By similarity). {ECO:0000250|UniProtKB:A4Q9F0, ECO:0000250|UniProtKB:F7E540, ECO:0000269|PubMed:16901895, ECO:0000269|PubMed:25959773}.
Molecular Weight:	103.0 kDa
UniProt:	Q6ZT98

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