Datasheet for ABIN7555812

TNKS2 Protein (AA 1-1166) (His tag)

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Overview

Quantity:	1 mg
Target:	TNKS2
Protein Characteristics:	AA 1-1166
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TNKS2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TNKS2 Protein expressed in mammalian cells.
Sequence:	MSGRRCAGGG AACASAAAEA VEPAARELFE ACRNGDVERV KRLVTPEKVN SRDTAGRKST PLHFAAGFGR KDVVEYLLQN GANVQARDDG GLIPLHNACS FGHAEVVNLL LRHGADPNAR DNWNYTPLHE AAIKGKIDVC IVLLQHGAEP TIRNTDGRTA LDLADPSAKA VLTGEYKKDE LLESARSGNE EKMMALLTPL NVNCHASDGR KSTPLHLAAG YNRVKIVQLL LQHGADVHAK DKGDLVPLHN ACSYGHYEVT ELLVKHGACV NAMDLWQFTP LHEAASKNRV EVCSLLLSYG ADPTLLNCHN KSAIDLAPTP QLKERLAYEF KGHSLLQAAR EADVTRIKKH LSLEMVNFKH PQTHETALHC AAASPYPKRK QICELLLRKG ANINEKTKEF LTPLHVASEK AHNDVVEVVV KHEAKVNALD NLGQTSLHRA AYCGHLQTCR LLLSYGCDPN IISLQGFTAL QMGNENVQQL LQEGISLGNS EADRQLLEAA KAGDVETVKK LCTVQSVNCR DIEGRQSTPL HFAAGYNRVS VVEYLLQHGA DVHAKDKGGL VPLHNACSYG HYEVAELLVK HGAVVNVADL WKFTPLHEAA AKGKYEICKL LLQHGADPTK KNRDGNTPLD LVKDGDTDIQ DLLRGDAALL DAAKKGCLAR VKKLSSPDNV NCRDTQGRHS TPLHLAAGYN NLEVAEYLLQ HGADVNAQDK GGLIPLHNAA

Product Details

	SYGHVDVAAL LIKYNACVNA TDKWAFTPLH EAAQKGRTQL CALLLAHGAD PTLKNQEGQT PLDLVSADDV SALLTAAMPP SALPSCYKPQ VLNGVRSPGA TADALSSGPS SPSSLSAASS LDNLSGSFSE LSSVVSSSGT EGASSLEKKE VPGVDFSITQ FVRNLGLEHL MDIFEREQIT LDVLVEMGHK ELKEIGINAY GHRHKLIKGV ERLISGQQGL NPYLTLNTSG SGTILIDLSP DDKEFQSVEE EMQSTVREHR DGGHAGGIFN RYNILKIQKV CNKKLWERYT HRRKEVSEEN HNHANERMLF HGSPFVNAII HKGFDERHAY IGGMFGAGIY FAENSSKSNQ YVYGIGGGTG CPVHKDRSCY ICHRQLLFCR VTLGKSFLQF SAMKMAHSPP GHHSVTGRPS VNGLALAEYV IYRGEQAYPE YLITYQIMRP EGMVDG **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:	TNKS2
Alternative Name:	TNKS2 (TNKS2 Products)
Background:	Poly [ADP-ribose] polymerase tankyrase-2 (EC 2.4.2.30) (ADP-ribosyltransferase diphtheria

Target Details

	toxin-like 6) (ARTD6) (Poly [ADP-ribose] polymerase 5B) (Protein poly-ADP-ribosyltransferase tankyrase-2) (EC 2.4.2.-) (TNKS-2) (TRF1-interacting ankyrin-related ADP-ribose polymerase 2) (Tankyrase II) (Tankyrase-2) (TANK2) (Tankyrase-like protein) (Tankyrase-related protein),FUNCTION: Poly-ADP-ribosyltransferase involved in various processes such as Wnt signaling pathway, telomere length and vesicle trafficking (PubMed:11739745, PubMed:11802774, PubMed:19759537, PubMed:21478859, PubMed:23622245, PubMed:25043379). Acts as an activator of the Wnt signaling pathway by mediating poly-ADP-ribosylation of AXIN1 and AXIN2, 2 key components of the beta-catenin destruction complex: poly-ADP-ribosylated target proteins are recognized by RNF146, which mediates their ubiquitination and subsequent degradation (PubMed:19759537, PubMed:21478859). Also mediates poly-ADP-ribosylation of BLZF1 and CASC3, followed by recruitment of RNF146 and subsequent ubiquitination (PubMed:21478859). Mediates poly-ADP-ribosylation of TERF1, thereby contributing to the regulation of telomere length (PubMed:11739745). Stimulates 26S proteasome activity (PubMed:23622245). {ECO:0000269|PubMed:11739745, ECO:0000269|PubMed:11802774, ECO:0000269|PubMed:19759537, ECO:0000269|PubMed:21478859, ECO:0000269|PubMed:23622245, ECO:0000269|PubMed:25043379}.
Molecular Weight:	126.9 kDa
UniProt:	Q9H2K2

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