

Datasheet for ABIN7562510
TESK1 Protein (AA 1-627) (His tag)



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Overview

Quantity:	1 mg
Target:	TESK1
Protein Characteristics:	AA 1-627
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TESK1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Tesk1 Protein expressed in mammalian cells.
Sequence:	<p>MAGERPPLRG PGPGEAPGEG PGGAGGGPGR GRPSSYRALR SAVSSLARVD DFDCAEKIGA GFFSEVYKVR HRQSQVMVL KMNKLPSNRS NTLREVQLMN RLRHPNILRF MGVCVHQQQL HALTEYMNGG TLEQLLSPE PLSWPVRLHL ALDIAQGLRY LHAKGVFHRD LTSKNCLVRR EDRGFTAVVG DFGLAEKIPV YREGTRKEPL AVVGSPYWMA PEVLRGELYD EKADVFAFGI VLCELIARVP ADPDYLPRTE DFGLDVPAFR TLVGNDCLPL FLLLAIHCCS MEPSTRAPFT EITQHLEQIL EQQPEATPLA KPPLTKAPLT YNQGSVPRGG PSATLPRPDP RLSRSRSDLF LPPSPESPSS WGDNLTRVNP FSLREDLRGG KIKLLDTPCK PATPLPLVPP SPLTSTQLPL VTPDILVQP ETPVRRCRSL PSSPELPRRM ETALPGPGPS PMGPTEERMD CEGSSPEPEP PGLAPQLPLA VATDNFISTC SSASQPWSPR SGPPLNNNPP AVVVNSPQGW AREPWNRAQH SLPRAAALER TEPSPPPSAP REPEEGLPCP GCCLGPFSG FLSMCRPPTP AVARYRNLC EAGSLLCHRG HHAKPPTPSL QLPGARS Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein</p>

Product Details

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: TESK1

Alternative Name: Tesk1 ([TESK1 Products](#))

Background: Dual specificity testis-specific protein kinase 1 (EC 2.7.12.1) (Testicular protein kinase 1),FUNCTION: Dual specificity protein kinase activity catalyzing autophosphorylation and phosphorylation of exogenous substrates on both serine/threonine and tyrosine residues (By similarity). Regulates the cellular cytoskeleton by enhancing actin stress fiber formation via phosphorylation of cofilin and by preventing microtubule breakdown via inhibition of TAOK1/MARKK kinase activity (By similarity). Inhibits podocyte motility via regulation of actin cytoskeletal dynamics and phosphorylation of CFL1 (PubMed:30115939). Positively regulates integrin-mediated cell spreading, via phosphorylation of cofilin (By similarity). Suppresses ciliogenesis via multiple pathways, phosphorylation of CFL1, suppression of ciliary vesicle directional trafficking to the ciliary base, and by facilitating YAP1 nuclear localization where it

Target Details

acts as a transcriptional corepressor of the TEAD4 target genes AURKA and PLK1 (By similarity). Probably plays a central role at and after the meiotic phase of spermatogenesis (By similarity). {ECO:0000250|UniProtKB:Q15569, ECO:0000250|UniProtKB:Q63572, ECO:0000269|PubMed:30115939}.

Molecular Weight: 68.1 kDa

UniProt: [O70146](#)

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