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Datasheet for ABIN7553863
GSPT2 Protein (AA 1-628) (His tag)

Overview

Quantity:	1 mg
Target:	GSPT2
Protein Characteristics:	AA 1-628
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GSPT2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat GSPT2 Protein expressed in mammalian cells.
Sequence:	MDSGSSSSDS APDCWDQVDM ESPGSAPSGD GVSSAVAEAQ REPLSSAFSR KLNVNAPFV PNVHAAEFVP SFLRGPTQPP TLPAGSGSND ETCTGAGYPQ GKRMGRGAPV EPSREEPLVS LEGSNSAVTM ELSEPVVENG EVEMALEESW EHSKEVSEAE PGGGSSGDSG PPEESGQEMM EEKKEIRKSK SVIVPSGAPK KEHVNWVFIG HVDAGKSTIG GQIMFLTGMV DKRTLEKYER EAKEKNRETW YLSWALDTNQ EERDKGKTVE VGRAYFETER KHFTILDAPG HKSFVPMNIG GASQADLAVL VISARKGEFE TGFEKGGQTR EHAMLAKTAG VKHLIVLINK MDDPTVNWISI ERYEECKEKL VPFLKKGFS PKKDIHFMPK SGLTGNIKE QSDFCPWYTG LPFIPYLDNL PNFNRSIDGP IRLPIVDKYK DMGTVVLGKL ESGSIFKGQQ LVMMMPNKHNV EVLGILSDDT ETDFVAPGEN LKIRLKGIEE EEILPGFILC DPSNLCHSGR TFDVQIVIE HKSIICPGYN AVLHIHTCIE EVEITALISL VDKKSGEKSK TRPRFVKQDQ VCIARLRTAG TICLETFFKDF PQMGRFTLRD EGKTIAIGKV LKLVPKED 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:

GSPT2

Alternative Name:

GSPT2 ([GSPT2 Products](#))

Background:

Eukaryotic peptide chain release factor GTP-binding subunit ERF3B (Eukaryotic peptide chain release factor subunit 3b) (eRF3b) (EC 3.6.5.-) (G1 to S phase transition protein 2 homolog),FUNCTION: GTPase component of the eRF1-eRF3-GTP ternary complex, a ternary complex that mediates translation termination in response to the termination codons UAA, UAG and UGA (PubMed:15987998, PubMed:11524954, PubMed:17562865). GSPT2/ERF3B mediates ETF1/ERF1 delivery to stop codons: The eRF1-eRF3-GTP complex binds to a stop codon in the ribosomal A-site (PubMed:15987998). GTP hydrolysis by GSPT2/ERF3B induces a conformational change that leads to its dissociation, permitting ETF1/ERF1 to accommodate fully in the A-site (PubMed:15987998). Component of the transient SURF complex which recruits UPF1 to stalled ribosomes in the context of nonsense-mediated decay (NMD) of mRNAs containing premature stop codons (PubMed:19417104).

Target Details

{ECO:0000269|PubMed:11524954, ECO:0000269|PubMed:15987998,
ECO:0000269|PubMed:17562865, ECO:0000269|PubMed:19417104}.

Molecular Weight: 68.9 kDa

UniProt: [Q8IYD1](#)

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