

Datasheet for ABIN7559615
GSPT1 Protein (AA 1-636) (His tag)



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Overview

Quantity:	1 mg
Target:	GSPT1
Protein Characteristics:	AA 1-636
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GSPT1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Gspt1 Protein expressed in mammalien cells.
Sequence:	<p>MDPSSGGGGG GGGGSSSSS DSAPDCWDQT DMEAPGPGPC GGGGSGSGSM AAVAEAQREN LSAAFSRQLN VNAKPFVPNV HAAEFVPSFL RGPAQPPLSP AGAAGGDHGA GSGAGGPSEP VESSQDQSCE GSNSTVSMEL SEPVENGET EMSPEESWEH KEEISEAEPG GGSSGDGRPP EESTQEMMEE EEEIPKPKSA VAPPGAPKKE HVNVVFIGHV DAGKSTIGGQ IMYLTGMVDK RTLEKYEREA KEKNRETWYL SWALDTNQEE RDKGKTVEVG RAYFETEKKH FTILDAPGHK SFVPMIGGA SQADLAVLVI SARKGEFETG FEKGGQTRFH AMLAKTAGVK HLIVLINKMD DPTVNWSNER YEECKEKLVP FLKKVGFNPK KDIHFMPCSG LTGANLKEQS DFCPWYIGLP FIPYLDNLPN FNRSVDGPIR LPIVDKYKDM GTVVLGKLES GSICKGQQLV MMPNKHNVEV LGILSDDVET DSVAPGENLK IRLKGIEEEE ILPGFILCDL NNLCHSGRTF DAQIVIEHK SIICPGYNAV LHIHTCIEEV EITALICLVD KKSGEKSKTR PRFVKQDQVC IARLRTAGTI CLETFKDFPQ MGRFTLRDEG KTIAIGKVLK LVPEKD Sequence without tag. The proposed Purification-Tag is</p>

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:

GSPT1

Alternative Name:

Gspt1 ([GSPT1 Products](#))

Background:

Eukaryotic peptide chain release factor GTP-binding subunit ERF3A (Eukaryotic peptide chain release factor subunit 3a) (eRF3a) (EC 3.6.5.-) (G1 to S phase transition protein 1 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. GSPT1/ERF3A mediates ETF1/ERF1 delivery to stop codons: The eRF1-eRF3-GTP complex binds to a stop codon in the ribosomal A-site. GTP hydrolysis by GSPT1/ERF3A induces a conformational change that leads to its dissociation, permitting ETF1/ERF1 to accommodate fully in the A-site. 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. Required for SHFL-mediated translation termination which inhibits programmed ribosomal frameshifting (-1PRF) of mRNA from viruses and cellular

Target Details

genes. {ECO:0000250|UniProtKB:P15170}.

Molecular Weight: 68.6 kDa

UniProt: [Q8R050](#)

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