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Datasheet for ABIN7547455  
**GSPT1 Protein (AA 1-499) (His tag)**

## Overview

Quantity:	1 mg
Target:	GSPT1
Protein Characteristics:	AA 1-499
Origin:	Human
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 mammalian cells.
Sequence:	MELSEPIVEN GETEMSPEES WEHKEEISEA EPGGGSLGDG RPPEESAHEM MEEEEIIPKP KSVVAPPGAP KKEHVNVVFI GHVDAGKSTI GGQIMYLTGM VDKRTLEKYE REAKEKNRET WYLSWALDTN QEERDKGKT V EVGRAYFETE KKHFTILDAP GHKSFVPMI GGASQADLAV LVISARKGEF ETGFEKGGQT REHAMLAKTA GVKHLIVLIN KMDDPTVNWS NERYEECKEK LVPFLKKVGF NPKKDIHFMP CGLTGANLK EQSDFCPWYI GLPFIPYLDN LPNFNRSVDG PIRLPIVDKY KDMGTVVLGK LESGSICKGQ QLVMMMPNKHN VEVLGILSDD VETDTVAPGE NLKIRLKGIE EEEILPGFIL CDPNNLCHSG RTFDAQIVII EHKSIIICPGY NAVLHIHTCI EEEVEITALIC LVDKKSGEKS KTRPRFVKQD QVCIALRLTA GTICLETFKD FPQMGRFTLR DEGKTIAIGK VLKLVPEKD <b>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.</b>

## Product Details

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### 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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

## Target Details

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### Target:

GSPT1

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### Alternative Name:

GSPT1 ([GSPT1 Products](#))

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### 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 (PubMed:2511002, PubMed:15987998, PubMed:19417105, PubMed:27863242). GSPT1/ERF3A mediates ETF1/ERF1 delivery to stop codons: The eRF1-eRF3-GTP complex binds to a stop codon in the ribosomal A-site (PubMed:27863242). GTP hydrolysis by GSPT1/ERF3A induces a conformational change that leads to its dissociation, permitting ETF1/ERF1 to accommodate fully in the A-site (PubMed:16777602, PubMed:27863242). 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:24486019). Required for SHFL-mediated translation termination which inhibits programmed ribosomal frameshifting (-1PRF) of mRNA from viruses and cellular genes

## Target Details

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(PubMed:30682371). {ECO:0000269|PubMed:15987998, ECO:0000269|PubMed:16777602, ECO:0000269|PubMed:19417105, ECO:0000269|PubMed:24486019, ECO:0000269|PubMed:2511002, ECO:0000269|PubMed:27863242, ECO:0000269|PubMed:30682371}.

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Molecular Weight: 55.8 kDa

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UniProt: [P15170](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months