# Recombinant Human Eukaryotic peptide chain release factor GTP-binding subunit ERF3A (GSPT1)

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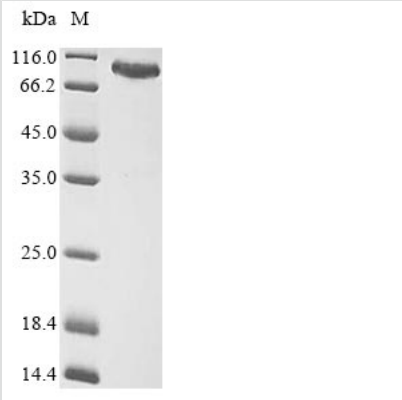
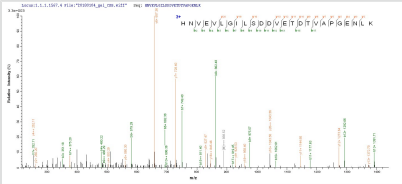
| **Product Code** | CSB-BP009966HU |
| **Relevance** | Involved in translation termination in response to the termination codons UAA, UAG and UGA. Stimulates the activity of ERF1. Involved in regulation of mammalian cell growth. Component of the transient SURF complex which recruits UPF1 to stalled ribosomes in the context of nonsense-mediated decay (NMD) of mRNAs containing premature stop codons. |
| **Abbreviation** | Recombinant Human GSPT1 protein |
| **Storage** | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |
| **Uniprot No.** | P15170 |
| **Product Type** | Recombinant Protein |
| **Immunogen Species** | Homo sapiens (Human) parvovirus B19 (isolate AU) |
| **Purity** | Greater than 85% as determined by SDS-PAGE. |
| **Sequence** | MELSEPIVENGETEMSPEESWEHKEEISEAEPGGGSLGDGRPPEESAHEMME EEEEIPKPKSVVAPPGAPKKEHVNVVFIGHVDAGKSTIGGQIMYLTGMVDKRTL EKYEREAKEKNRETWYLSWALDTNQEERDKGKTVEVGRAYFETEKKHFTILD APGHKSFVPNMIGGASQADLAVLVISARKGEFETGFEKGGQTREHAMLAKTA GVKHLIVLINKMDDPTVNWSNERYEECKEKLVPFLKKVGFNPKKDIHFMPCSG LTGANLKEQSDFCPWYIGLPFIPYLDNLPNFNRSVDGPIRLPIVDKYKDMGTVV LGKLESGSICKGQQLVMMPNKHNVEVLGILSDDVETDTVAPGENLKIRLKGIEE EEILPGFILCDPNNLCHSGRTFDAQIVIIEHKSIICPGYNAVLHIHTCIEEVEITALIC LVDKKSGEKSKTRPRFVKQDQVCIARLRTAGTICLETFKDFPQMGRFTLRDEG KTIAIGKVLKLVPEKD |
| **Research Area** | Epigenetics and Nuclear Signaling |
| **Source** | Baculovirus |
| **Target Names** | GSPT1 |
| **Protein Names** | G1 to S phase transition protein 1 homolog ERF3A |
| **Expression Region** | 1-499aa |
| **Notes** | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| **Tag Info** | N-terminal MBP-tagged and C-terminal 6xHis-tagged |
| **Mol. Weight** | 99.8 kDa |

**Protein Length** Full Length

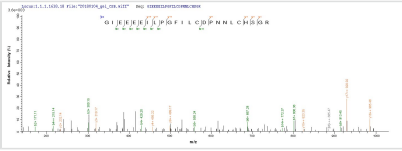
**Image**




(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of Baculovirus host and target protein, the LC-MS/MS Analysis result of CSB-BP009966HU could indicate that this peptide derived from Baculovirus-expressed Homo sapiens (Human) parvovirus B19 (isolate AU) GSPT1.



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**Description**

The recombinant Human GSPT1 was expressed with the amino acid range of 1-499. This GSPT1 protein is theoretically predicted to have a molecular weight of 99.8 kDa. Expression of this GSPT1 protein is conducted in baculovirus. The N-terminal MBP tag and C-terminal 6xHis tag was fused into the coding gene segment of GSPT1, making it easier to detect and purify the GSPT1 recombinant protein in the later stages of expression and purification.

The current research on Eukaryotic peptide chain release factor GTP-binding subunit ERF3A (GSPT1) focuses on two major areas: protein synthesis and transcriptional regulation. In the realm of protein synthesis, GSPT1's role is closely scrutinized, particularly its potential impact on regulating the growth and survival of tumor cells. On the other hand, in the field of transcriptional regulation, GSPT1 participates in intricate networks that govern gene expression, influencing cellular physiological processes. These two primary research directions aim to provide new perspectives for a deeper understanding of GSPT1 functions and the treatment of associated diseases.

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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