Datasheet for ABIN3092738

GFI1 Protein (AA 1-422) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	GFI1
Protein Characteristics:	AA 1-422
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GFI1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MPRSFLVKSK KAHSYHQPRS PGPDYSLRLE NVPAPSRADS TSNAGGAKAE PRDRLSPESQ LTEAPDRASA SPDSCEGSVC ERSSEFEDFW RPPSPSASPA SEKSMCPSLD EAQPFPLPFK PYSWSGLAGS DLRHLVQSYR PCGALERGAG LGLFCEPAPE PGHPAALYGP KRAAGGAGAG APGSCSAGAG ATAGPGLGLY GDFGSAAAGL YERPTAAAGL LYPERGHGLH ADKGAGVKVE SELLCTRLLL GGGSYKCIKC SKVFSTPHGL EVHVRRSHSG TRPFACEMCG KTFGHAVSLE QHKAVHSQER SFDCKICGKS FKRSSTLSTH LLIHSDTRPY PCQYCGKRFH QKSDMKKHTF IHTGEKPHKC QVCGKAFSQS SNLITHSRKH TGFKPFGCDL CGKGFQRKVD LRRHRETQHG LK **Sequence without tag. The proposed Strep-Tag is based on experience s 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:

Product Details

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	GFI1

Target Details

Alternative Name:	GFI1 (GFI1 Products)
Background:	Zinc finger protein Gfi-1 (Growth factor independent protein 1) (Zinc finger protein 163),FUNCTION: Transcription repressor essential for hematopoiesis. Functions in a cell-context and development-specific manner. Binds to 5'-TAAATCAC[AT]GCA-3' in the promoter region of a large number of genes. Component of several complexes, including the EHMT2-GFI1-HDAC1, AJUBA-GFI1-HDAC1 and RCOR-GFI-KDM1A-HDAC complexes, that suppress, via histone deacetylase (HDAC) recruitment, a number of genes implicated in multilineage blood cell development. Regulates neutrophil differentiation, promotes proliferation of lymphoid cells, and is required for granulocyte development. Inhibits SPI1 transcriptional activity at macrophage-specific genes, repressing macrophage differentiation of myeloid progenitor cells and promoting granulocyte commitment (By similarity). Mediates, together with U2AF1L4, the alternative splicing of CD45 and controls T-cell receptor signaling. Regulates the endotoxin-mediated Toll-like receptor (TLR) inflammatory response by antagonizing RELA. Cooperates with CBFA2T2 to regulate ITGB1-dependent neurite growth. Controls cell-cycle progression by repressing CDKNIA/p21 transcription in response to TGFB1 via recruitment of GFI1 by ZBTB17 to the CDKNIA/p21 and CDKNIB promoters. Required for the maintenance of inner ear hair cells. {ECO:0000250|UniProtKB:P70338, ECO:0000269|PubMed:11060035, ECO:0000269|PubMed:12778173, ECO:0000269|PubMed:16287849, ECO:0000269|PubMed:17197705, ECO:0000269|PubMed:17646546, ECO:0000269|PubMed:18805794, ECO:0000269|PubMed:19026687, ECO:0000269|PubMed:19164764, ECO:0000269|PubMed:20190815, ECO:0000269|PubMed:20547752, ECO:0000269|PubMed:8754800}.
Molecular Weight:	45.3 kDa
UniProt:	Q99684

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.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for

Application Details

	protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months