

Datasheet for ABIN3092776

GLI1 Protein (AA 1-1106) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	GLI1
Protein Characteristics:	AA 1-1106
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GLI1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MFNSMTPPPI SSYGEPCLLR PLPSQGAPSV GTEGLSGPPF CHQANLMSGP HSYGPARETN</p> <p>SCTEGLPLFSS PRSAVKLTKK RALSISPLSD ASLDLQTVIR TSPSSLVAFI NSRCTSPGGS</p> <p>YGHLSIGTMS PSLGFPAQMN HQKGPSPSFG VQPCGPHDSA RGGMIPHPQS RGPFPPTCQLK</p> <p>SELDMLVGKC REEPLEGDMS SPNSTGIQDP LLGMLDGRED LEREKREPE SVYETDCRWD</p> <p>GCSQEFDSQE QLVHHINSEH IHGERKEFVC HWGGCSREL RPFKAQYMLVV HMRRHTGEKP</p> <p>HKCTFEGCRK SYSRLENLKT HLRSHTEGKP YMCEHEGCSK AFSNASDRAK HQNRTHSNEK</p> <p>PYVCKLPGCT KRYTDPSSLR KHVKT VHGPD AHVTKRHRGD GPLPRAPSIS TVEPKREREG</p> <p>GPIREESRLT VPEGAMKPQP SPGAQSSCSS DHSPAGSAAN TDSGVEMTGN AGGSTEDLSS</p> <p>LDEGPCIAGT GLSTLRRLEN LRLDQLHQLR PIGTRGLKLP SLSHTGTTVS RRVGPPVSLE</p> <p>RRSSSSSSIS SAYTVSRRSS LASPFPPGSP PENGASSLPG LMPAQHYLLR ARYASARGGG</p> <p>TSPTAASSLD RIGGLPMPW RSRAEYPGYN PNAGVTRRAS DPAQAADRP PARVQRFKSL</p>

GCVHTPPTVA GGGQNFDPYL PTSVYSPQP SITENAAMDA RGLQEEPEVG TSMVGSGGLNP
YMDFPPTDTL GYGGPEGAAA EPYGARGPGS LPLGPGPPTN YGPNPCPQQA SYPDPTQETW
GEFPSHSGLY PGPKALGGTY SQCPRLHYG QVQVKPEQGC PVGSDSTGLA PCLNAHPSEG
PPHPQPLFSH YPQSPPPQYL QSGPYTQPPP DYLPSEPRPC LDFDSPHTST GQLKAQLVCN
YVQSQQELLW EGGGREDAPA QEPSYQSPKF LGGSQVSPSR AKAPVNTYGP GFGPNLPNHK
SGSYPTSPC HENFVVGANR ASHRAAPPR LLPPLPTCYG PLKVGGTNPS CGHPEVGRLG
GGPALYPPPE GQVCNPLDSL DLDNTQLDFV AILDEPQGLS PPPSHDQGRS SGHTPPPSGP
PNMAVGNMSV LLRSLPGETE FLNSSA

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:

- 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:

Product Details

- 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: GLI1

Alternative Name: GLI1 ([GLI1 Products](#))

Background: Zinc finger protein GLI1 (Glioma-associated oncogene) (Oncogene GLI),FUNCTION: Acts as a transcriptional activator (PubMed:19706761, PubMed:10806483, PubMed:19878745, PubMed:24076122, PubMed:24311597, PubMed:24217340). Binds to the DNA consensus sequence 5'-GACCACCCA-3' (PubMed:2105456, PubMed:8378770, PubMed:24217340). Regulates the transcription of specific genes during normal development (PubMed:19706761). Plays a role in craniofacial development and digital development, as well as development of the central nervous system and gastrointestinal tract. Mediates SHH signaling (PubMed:19706761, PubMed:28973407). Plays a role in cell proliferation and differentiation via its role in SHH signaling (PubMed:11238441, PubMed:28973407). {ECO:0000269|PubMed:10806483, ECO:0000269|PubMed:11238441, ECO:0000269|PubMed:19706761, ECO:0000269|PubMed:19878745, ECO:0000269|PubMed:2105456, ECO:0000269|PubMed:24076122, ECO:0000269|PubMed:24217340, ECO:0000269|PubMed:24311597, ECO:0000269|PubMed:28973407, ECO:0000269|PubMed:8378770}., FUNCTION: [Isoform 2]: Acts as a transcriptional activator, but activates a different set of genes than isoform 1. Activates expression of CD24, unlike isoform 1. Mediates SHH signaling. Promotes cancer cell migration. {ECO:0000269|PubMed:19706761}.

Molecular Weight: 117.9 kDa

UniProt: [P08151](#)

Pathways: [Hedgehog Signaling](#), [Dopaminergic Neurogenesis](#)

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 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