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Datasheet for ABIN3092776
GLI1 Protein (AA 1-1106) (Strep Tag)

Overview

Quantity:	1 mg
Target:	GLI1
Protein Characteristics:	AA 1-1106
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GLI1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence: MFNSMTPPPI SSYGEPCCLR PLPSQGAPSV GTEGLSGPPF CHQANLMSGP HSYGPARETN
SCTEGLPFSS PRSAVKLTKK RALSISPLSD ASLDLQTVIR TSPSSLVAFI NSRCTSPGGS
YGHLSIGTMS PSLGFPAQMN HQKGPSPSFG VQPCGPHDSA RGGMIPHPQS RGPFPCTQLK
SELDMLVGKC REEPLEGDMS SPNSTGIQDP LLGMLDGRED LEREKREPE SVYETDCRWD
GCSQEFDSQE QLVHHINSEH IHGERKEFVC HWGGCSREL RPFKAQYMLVV HMRRHTGEKP
HKCTFEGCRK SYSRLENLKT HLRSHTEGEP YMCEHEGCSK AFSNASDRAK HQNRTHSNEK
PYVCKLPGCT KRYTDPSSLR KHVKT VHGPD AHVTKRHRGD GPLPRAPSSIS TVEPKREREG
GPIREESRLT VPEGAMKPQP SPGAQSSCSS DHSPAGSAAN TDSGVEMTGN AGGSTEDLSS
LDEGPCIAGT GLSTLRRLEN LRLDQLHQLR PIGTRGLKLP SLSHTGTTVS RRVGPPVSLE
RRSSSSSSIS SAYTVSRRSS LASPFPPGSP PENGASSLPG LMPAQHYLLR ARYASARGGG
TSPTAASSLD RIGGLPMPW RSRAEYPGYN PNAGVTRRAS DPAQAADRP PARVQRFKSL
GCVHTPPTVA GGGQNFDPYL PTSVYSPQP SITENAAMDA RGLQEEPEVG TSMVGSGLNP

YMDFPPTDTL GYGGPEGAAA EPYGARGPGS LPLGPGPPTN YGPNPCPQQA SYPDPTQETW
GEFPSHSGLY PGPKALGGTY SQCPRLHYG QVQVKPEQGC PVGSDSTGLA PCLNAHPSEG
PPHPQPLFSH YPQSPPPQYL QSGPYTQPPP DYLPSEPRPC LDFDSPATHST GQLKAQLVCN
YVQSQEELLW EGGGREDAPA QEPSYQSPKF LGGSQVSPSR AKAPVNTYGP GFGPNLPNHH
SGSYPTSPC HENFVVGANR ASHRAAAPPR LLPPLPTCYG PLKVGGTNPS CGHPEVGRLG
GGPALYPPPE GQVCNPLDSL DLDNTQLDFV AILDEPQGLS PPPSHDQRGS 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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification: Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

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.

Target Details

{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. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)