

Datasheet for ABIN3092792

GLI3 Protein (AA 1-1580) (Strep Tag)**1** Image[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	GLI3
Protein Characteristics:	AA 1-1580
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GLI3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MEAQSHSSTT TEKKKVENS I VKCSTRDVS EKAVASSTTS NEDESPGQTY HRERRNAITM QPQNVQGLSK VSEEPSTSSD ERASLIKKEI HGSLPHVAEP SVPYRGTVFA MDPRNGYMEP HYHPPHLFPA FHPPVPIDAR HHEGRYHYDP SPIPPLHMTS ALSSSPTYPD LPFIRISPHR NPTAASESPF SPPHPYINPY MDYIRSLHSS PSLSMISATR GLSPTDAPHA GVSPA EYYHQ MALLTGQRSP YADIIPSAAT AGTGAIHMEY LHAMDSTRFS SPRLSARPSR KRTL SISPLS DHSFDLQ TMI RTSPNSLVTI LNNRS SSSSA SGSYGHLSAS AISPALSFTY SSAPVSLHMH QQILSRQQSL GSAFGHSPPL IHPAPTFTPTQ RPIPGIPTVL NPVQVSSGPS ESSQNKPTSE SAVSSTGDPM HNKRSKIKPD EDLPSPGARG QQEQPEGTTL VKEEGDKDES KQEPEVIYET NCHWEGCARE FDTQEQLVHH INNDHIHGEK KEFVCRWLDC SREQKP FKAQ YMLVVHMRRH TGEKPHKCTF EGCTKAYSRL ENLKTHLRSH TGEKPYVCEH EGCNKAFSNA SDRAKHQ NRT HSNEKPYVCK IPGCTKRYTD PSSLRKHVKT VHGPEAHVTK KQRGDIHPRP PPRDSGSHS QSRSPGRPTQ GALGEQQDLS NTTSKREECL QVKTVKAEKP MTSQSPGGQ SSCSSQQSPI
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SNYSNSGLEL PLTDGGSIGD LSAIDETPIM DSTISTATTA LALQARRNPA GTKWMEHVKL
ERLKQVNGMF PRLNPILPPK APAVSPLIGN GTQSNNTCSL GGPMTLLPGR SDLSGVDVTM
LNMLNRRDSS ASTISSAYLS SRRSSGISPC FSSRRSSEAS QAEGRPQNVV VADSYDPIST
DASRRSSEAS QSDGLPSLLS LTPAQQYRLK AKYAAATGGP PPTPLPNMER MSLKTRLALL
GDALEPGVAL PPVHAPRRCS DGGAHGYGRR HLQPHDAPGH GVRRASDPVR TGSEGLALPR
VPRFSSLSSC NPPAMATSAE KRSLVLQNYT RPEGGQSRNF HSSPCPPSIT ENVTLESMTM
DADANLNDED FLPDDVVQYL NSQNGAGYEQ HFPSALPDDS KVPHPGPGDFD APGLPDASHAG
QQFHALEQPC PEGSKTDLPI QWNEVSSGSA DLSSSKLKCG PRPAVPQTRA FGFCNGMVVH
PQNPLRSGPA GGYQTLGENS NPYGGPEHLM LHNSPGSGTS GNAFHEQPCK APQYGNCLNR
QPVPAGALDG ACGAGIQASK LKSTPMQGSQ GQLNFGPLVA PNESAGSMVN GMQNDQPVGQ
GYLAHQLLGD SMQHPGAGRP GQMLGQISA TSHINIQGP ESCLPGAAGM GSQPSSLAVV
RGYQPCASFG GSRRQAMPRD SLALQSGQLS DTSQTCRVNG IKMEMKGQPH PLCSNLQNYV
GQFYDQTVGF SQQDTKAGSF SISDASCLLQ GTSKNSSELL SPGANQVTST VDSLDSHDL
GVQIDFDAII DDGDHSSLMS GALSPSIQN LSHSSSRLTT PRASLPFPAL SMSTTNMAIG
DMSLLTSLA EESKFLAVMQ

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-

Product Details

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 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)
Grade:	Crystallography grade

Target Details

Target:	GLI3
Alternative Name:	GLI3 (GLI3 Products)
Background:	Transcriptional activator GLI3 (GLI3 form of 190 kDa) (GLI3-190) (GLI3 full-length protein) (GLI3FL) [Cleaved into: Transcriptional repressor GLI3R (GLI3 C-terminally truncated form) (GLI3 form of 83 kDa) (GLI3-83)],FUNCTION: Has a dual function as a transcriptional activator and a repressor of the sonic hedgehog (Shh) pathway, and plays a role in limb development. The full-length GLI3 form (GLI3FL) after phosphorylation and nuclear translocation, acts as an activator (GLI3A) while GLI3R, its C-terminally truncated form, acts as a repressor. A proper balance between the GLI3 activator and the repressor GLI3R, rather than the repressor gradient

Target Details

itself or the activator/repressor ratio gradient, specifies limb digit number and identity. In concert with TRPS1, plays a role in regulating the size of the zone of distal chondrocytes, in restricting the zone of PTHLH expression in distal cells and in activating chondrocyte proliferation. Binds to the minimal GLI-consensus sequence 5'-GGGTGGTC-3'.
{ECO:0000269|PubMed:10693759, ECO:0000269|PubMed:11238441, ECO:0000269|PubMed:17764085}.

Molecular Weight: 169.9 kDa

UniProt: [P10071](#)

Pathways: [Hedgehog Signaling](#)

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

Handling

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process