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GLI1 Protein (AA 1-1111) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	GLI1
Protein Characteristics:	AA 1-1111
Origin:	Mouse
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:

MFNPMTPPQV NSYSEPCCLR PLHSQGVPSM GTEGLSGLPF CHQANFMSGS QGYGAARETS SCTEGSLFPP PPPPRSSVKL TKKRALSISP LSDASLDLQT VIRTSPSSLV AFINSRCTSP GGSYGHLSIG TMSPSLGFPP QMSHQKGTSP PYGVQPCVPH DSTRGSMMLH PQSRGPRATC QLKSELDMMV GKCPEDPLEG DMSSPNSTGT QDHLLGMLDG REDLEREEKP EPESVYETDC RWDGCSQEFD SQEQLVHHIN SEHIHGERKE FVCHWGGCSR ELRPFKAQYM LVVHMRRHTG EKPHKCTFEG CRKSYSRLEN LKTHLRSHTG EKPYMCEQEG CSKAFSNASD RAKHQNRTHS NEKPYVCKLP GCTKRYTDPS SLRKHVKTVH GPDAHVTKRH RGDGPLPRAQ PLSTVEPKRE REGGSGREES RLTVPESAMP QQSPGAQSSC SSDHSPAGSA ANTDSGVEMA GNAGGSTEDL SSLDEGPCVS ATGLSTLRRL ENLRLDQLHQ LRPIGSRGLK LPSLTHAGAP VSRRLGPPVS LDRRSSSSS MSSAYTVSRR SSLASPFPPG TPPENGASSL PGLTPAQHYM LRARYASARG SGTPPTAAHS LDRMGGLSVP PWRSRTEYPG YNPNAGVTRR ASDPARAADH PAPARVQRFK SLGCVHTPPS VATGRNFDPH HPTSVYSPQP PSITENVAMD TRGLQEEPEV GTSVMGNGLN

PYMDFSSTDT LGYGGPEGTA AEPYEARGPG SLPLGPGPPT NYGPGHCAQQ VSYPDPTPEN WGEFPSHAGV YPSNKAPGAA YSQCPRLEHY GQVQVKPEQG CPVGSDSTGL APCLNAHPSE GSPGPQPLFS HHPQLPQPQY PQSGPYPQPP HGYLSTEPRL GLNFNPSSSH STGQLKAQLV CNYVQSQQEL LWEGRNRGGL PNQELPYQSP KFLGGSQVSQ SPAKTPAAAA AAYGSGFAPA SANHKSGSYP APSPCHETFT VGVNRPSHRP AAPPRLLPPL SPCYGPLKVG DTNPSCGHPE VGRLGAGPAL YPPPEGQVCN ALDSLDLDNT QLDFVAILDE AQGLSPPLSH EQGDSSKNTP SPSGPPNMAV GNMSVLLGSL PGETOFLNSS A

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 posttranslational 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) **Target Details** Target: GLI1 Alternative Name: Gli1 (GLI1 Products) Background: Zinc finger protein GLI1 (Glioma-associated oncogene homolog), FUNCTION: Acts as a transcriptional activator. Binds to the DNA consensus sequence 5'-GACCACCCA-3'. Regulates the transcription of specific genes during normal development. Plays a role in craniofacial development and digital development, as well as development of the central nervous system and gastrointestinal tract. Mediates SHH signaling. Plays a role in cell proliferation and differentiation via its role in SHH signaling. {ECO:0000250|UniProtKB:P08151}. Molecular Weight: 118.6 kDa UniProt: P47806 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.

Application Details

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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)