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Datasheet for ABIN3134900

GLI2 Protein (AA 1-1544) (Strep Tag)

Overview

Quantity:	1 mg
Target:	GLI2
Protein Characteristics:	AA 1-1544
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GLI2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	METSAPAPAL EKKEAKSGLL EDSSFPDPGK KACPLAVAAA VAAHGVPQQL LPAFHAPLPI DMRHQEGRYH YDPHSVHSVH GPPTLSGSPV ISDISLIRLS PHPAGPGESP FSAHHPYVNP HMEHYLRVSH SSPTLSMISA ARGLSPADVA HEHLKERGLF SLAAPGTNPS DYYHQMTLMA SHPTPYGDLL MQSGGAASAP HLHDYLNPDV ASRFSSPRVT PRLSRKRALS ISPLSDASLD LQRMIRTSPN SLVAYINNSR SSSAASGSYG HLSAGALSPA FTFPHPINPV AYQQILSQQR GLGSAFGHTP PLIQPSPTFL AQQPMTLTSI STMPQLSSS SSNCLNDANQ NKQNSESAVS STVNPITIHK RSKVKTEAEG LRPASPLGLT QEQLADLKED LDRDDCKQEA EVVIYETNCH WADCTKEYDT QEQLVHHINN EHIHGEKKEF VCRWQACTRE QKPFGAQYML VVHMRRHTGE KPHKCTFEGC SKAYSRLLENL KTHLRSHTGE KPYVCEHEGC NKAFSNASDR AKHQNRTHSN EKPYICKIPG CTKRYTDPSS LRKHVKTVHG PDAHVTKKQR NDVHVRAPLL KENGDNESA EPGGRGPEES VEASSTSHTV EDCLHIKAIK TESSGLCQSS PGAQSSCSSE PSPLGSAPNN DSGMEMPGTG PGSLGDLTAL ADTCPGADTS ALAAPSTGGL QLRKHMSTVH RFEQLKREKL
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KSLKDSCSWA GPAPHTRNTK LPPLPVNGSV LENFNNTGGG GPAGLLPSQR LPELTVTML
SQLQERRDSS TSTMSSAYTV SRRSSGISPY FSSRRSSEAS PLGGLRPHNA SSADSYDPIS
TDASRRSSEA SQCSGGGPGL LNLTPAQYN LRAKYAAATG GPPPTPLPGL DRVSLRTRLA
LLDAPERALP GACPHPLGPR RGS DGPTYSH GHGHGYAGAA PAFHEGPNS STRRASDPVR
RPDPLILPRV QRFHSTHNMN PGSLPPCADR RGLHVQSHPS VDSNLTRNAY SPRPPSINEN
VVMEAVAAGV DPGGLECDLG LVEDELVLPD DVVQYIKAHT GGTLDGIRQ GYPTEGTGFP
ENSKLPSPGL QGHRRLAAD SNMGPSAPGL GGCQLSYSPS SNLNKSNMPV QWNEVSSGTV
DALPTQVKPP PFPHSNLAVV QKPAFGQYP GYNPQSVQSS SGGLDSTQPH LQLRGAPSAS
RGSYTQPRQ PAAGSQCLGM SAAMSPQASY SQAHPQLSPN IVSGSLNQFS PSCSNMAAKP
SHLGLPQQME VVPNATIMNG HQREHGV PNS SLAAVSQPHP VLSYPQQDSY QQGSNLLSSH
QPGFMESQQN AGFGLMQPRP PLEPNTASRH RGVRSQQQL YARTTGQAMV TSANQETAEA
MPKGPAGTMV SLAPQPSQDT GRAQDQNTLY YYGQIHMYEQ NGGCPAVQPQ PPQPQACSDS
IQPEPLPSPG VNQVSSTVDS QLLEPPQIDF DAIMDDGDHS SLFSGALSPT LLHNLSQNSS
RLTTPRNSLT LPSIPAGISN MAVGDMSSML TSLAEESKFL NMMT

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.

Product Details

- 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:	GLI2
Alternative Name:	Gli2 (GLI2 Products)
Background:	Zinc finger protein GLI2 (Tax helper protein),FUNCTION: Functions as a transcription regulator in the hedgehog (Hh) pathway (PubMed:9006072). Functions as a transcriptional activator (PubMed:10806483). May also function as transcriptional repressor (PubMed:10433919). Requires STK36 for full transcriptional activator activity (PubMed:10806483). Binds to the DNA sequence 5'-GAACCACCCA-3' which is part of the TRE-2S regulatory element (By similarity). Is involved in the smoothened (SHH) signaling pathway (PubMed:10433919). Required for normal skeleton development (PubMed:9006072). {ECO:0000250 UniProtKB:P10070,

Target Details

	ECO:0000269 PubMed:10806483, ECO:0000269 PubMed:9006072, ECO:0000305 PubMed:10433919}.
Molecular Weight:	165.0 kDa
UniProt:	Q0VGT2
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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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)