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Datasheet for ABIN3134900

## GLI2 Protein (AA 1-1544) (His tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	GLI2
Protein Characteristics:	AA 1-1544
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GLI2 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence: METSAPAPAL EKKEAKSGLL EDSSFPDPGK KACPLAVAAA VAAHGVPQQL LPAFHAPLPI  
DMRHQEGRYH YDPHSVHSVH GPPTLSGSPV ISDISLIRLS PHPAGPGESP FSAHHPYVNP  
HMEHYLRSVH SSPTLSMISA ARGLSPADVA HEHLKERGLF SLAAPGTNPS DYYHQMTLMA  
SHPTPYGDLL MQSGGAASAP HLHDYLNVPD ASRFSSPRVT PRLSRKRALS ISPLSDASLD  
LQRMIRTSPN SLVAYINNSR SSSAASGSYG HLSAGALSPA FTFPHPINPV AYQQILSQQR  
GLGSAFGHTP PLIQPSPTFL AQQPMTLSI STMPQLSSS SSNCLNDANQ NKQNSESAVS  
STVNPITIHK RSKVKTEAEG LRPASPLGLT QEQLADLKED LDRDDCKQEA EVVIYETNCH  
WADCTKEYDT QEQLVHHINN EHIHGEKKEF VCRWQACTRE QKPFKAQYML 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

KSLKDSCSWA GPAPHTRNTK LPPLPVNGSV LENFNNTGGG GPAGLLPSQR LPELTEVMTL  
SQLQERRDSS TSTMSSAYTV SRRSSGISPY FSSRRSSEAS PLGGLRPHNA SSADSYDPIS  
TDASRRSSEA SQCSGGGPG LNLTPAQYN LRAKYAAATG GPPPTPLPGL DRVSLRTRLA  
LLDAPERALP GACPHPLGPR RGS DGPTYSH GHGHGYAGAA PAFPHEGPNSTRRASDPVR  
RPDPLILPRV QRFHSTHNMN PGSLPPCADR RGLHVQSHPS VDSNLTRNAY SPRPPSINEN  
VVMEAVAAGV DGPGLCEDLG LVEDELVLPD DVVQYIKAHT GGTLDDGIRQ GYPTEGTGFP  
ENSKLPSPGL QGHRRLAAAD SNMGPSAPGL GGCQLSYSPS SNLNKSNMPV QWNEVSSGTV  
DALPTQVKPP PFPHSNLAVV QKPAFGQYP GYNPQSVQSS SGGLDSTQPH LQLRGAPSAS  
RGSYTQPRQ PAAGSQCLGM SAAMSPQASY SQAHPQLSPN IVSGSLNQFS PSCSNMAAKP  
SHLGLPQQME VVPNATIMNG HQREHGVNS SLAAVSQPHP VLSYPQQDSY QQGSNLLSSH  
QPGFMESQQN AGFGLMQPRP PLEPNTASRH RGVRSQQQL YARTTGQAMV TSANQETAEA  
MPKGPAGTMV SLAPQPSQDT GRAQDQNTLY YYQIHMIEQ NGGCPAVQPQ PPQPQACSDS  
IQPEPLSPG VNQVSTVDS QLLEPPQIDF DAIMDDGDHS SLFSGALSPT LLHNLSQNSS  
RLTTPRNSLT LPSIPAGISN MAVGDMSSML TSLAEESKFL NMMT

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Gli2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

## Product Details

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The concentration of the protein is calculated using its specific absorption coefficient. We use the Expiry's protparam tool to determine the absorption coefficient of each protein.

**Purification:** Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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:** >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

**Sterility:** 0.22 µm filtered

**Endotoxin Level:** Protein is endotoxin free.

**Grade:** Crystallography grade

## Target Details

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**Target:** GLI2

**Alternative Name:** Gli2 ([GLI2 Products](#))

**Background:** Functions as transcription regulator in the hedgehog (Hh) pathway (PubMed:9006072). Functions as 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, ECO:0000269|PubMed:10806483, ECO:0000269|PubMed:9006072, ECO:0000305|PubMed:10433919}.

**Molecular Weight:** 166.0 kDa Including tag.

**UniProt:** [Q0VGT2](#)

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

## Application Details

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**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

## Application Details

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though.

Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

## Images

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