

Datasheet for ABIN7554016  
**GLI1 Protein (AA 1-1106) (His tag)**



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## Overview

Quantity:	1 mg
Target:	GLI1
Protein Characteristics:	AA 1-1106
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GLI1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant GLI1 Protein expressed in mammalian cells.
Sequence:	<p>MFNSMTPPPI SSYGEPCCLR PLPSQGAPSV GTEGLSGPPF CHQANLMSGP HSYGPARETN            SCTEGPLFSS 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 KHVKTVHGPD AHVTKRHRGD GPLPRAPSI TVEPKREREG            GPIREESRLT VPEGAMKPQP SPGAQSSCSS DHSPAGSAAN TDSGVEMTGN AGGSTEDLSS            LDEGPCIAGT GLSTLRRLEN LRLDQLHQLR PIGTRGLKLP SLSHTGTTVS RRVGPPVSLE            RRSSSSSSIS SAYTVSRSS LASPFPPGSP PENGASSLPG LMPAQHYLLR ARYASARGGG            TSPTAASSLD RIGGLPMPW RSRAEYPGYN PNAGVTRRAS DPAQAADRP PARVQRFKSL            GCVHTPPTVA GGGQNFDPYL PTSVYSPQP SITENAAMDA RGLQEEPEVG TSMVGSGLNP</p>

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YMDFPPTDTL GYGGPEGAAA EPYGARGPGS LPLGPGPPTN YGNPNCQQA SYPDPTQETW  
GEFSPSHGLY PGPKALGGTY SQCPRLHYG QVQVKPEQGC PVGSDSTGLA PCLNAHPSEG  
PPHPQPLFSH YPQSPPPQYL QSGPYTQPPP DYLPSEPRPC LDFDSPHST GQLKAQLVCN  
YVQSQQELLW EGGGREDAPA QEPSYQSPKF LGGSQVSPSR AKAPVNTYGP GFGPNLPHNK  
SGSYPTSPC HENFVVGANR ASHRAAAPR LLPPLPTCYG PLKVGGTNPS CGHPEVGRLG  
GGPALYPPPE GQVCNPLDSL DLDNTQLDFV AILDEPQGLS PPPSHDQRGS SGHTPPPSGP  
PNMAVGNMSV LLRSLPGETE FLNSSA **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

## Target Details

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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,

## Target Details

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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. {ECO:0000269|PubMed:19706761}.

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Molecular Weight: 117.9 kDa

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UniProt: [P08151](#)

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

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months