

Datasheet for ABIN7554024  
**GLI3 Protein (AA 1-1580) (His tag)**



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## Overview

Quantity:	1 mg
Target:	GLI3
Protein Characteristics:	AA 1-1580
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GLI3 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant GLI3 Protein expressed in mammalian cells.
Sequence:	MEAQSHSSTT TEKKKVENSI VKCSTRDVS EKAVASSTTS NEDESPGQTY HRERRNAITM QPQNVQGLSK VSEEPSTSSD ERASLIKKEI HGSLPHVAEP SVPYRGTVFA MDP RN GYMEP HYHPPHLFPA FHPPVPIDAR HHEGRYHYDP SPIPPLHMTS ALSSSTPYPD LPFIRISPHR NPTAASESPF SPPHPYINPY MDYIRSLHSS PSLSMISATR GLSPTDAPHA GVSPA EYHQ MALLTGQRSP YADIIPSAAT AGTGAIHMEY LHAMDSTRFS SPRLSARPSR KRTL SISPLS DHSFDLQ TMI RTSPNSLVTI LNNSRSSSSA SGSYGHLSAS AISPALSFTY SSAPVSLHMH QQILSRQQSL GSAFGHSPPL IHPAPTFPTQ RPIPGIPTVL NPVQVSSGPS ESSQNKPTSE SAVSSTGDPM HNKRSKIKPD EDLPSPGARG QQEQPEGTTL VKEEGDKDES KQEPEVIYET NCHWEGCARE FDTQEQLVHH INNDHIHGEK KEFVCRWLDC SREQKPFKAQ YMLVWHMRRH TGEKPHKCTF EGCTKAYSRL ENLKTHLRSH TGEKPYVCEH EGCNKAFSNA SDRAKHQ NRT HSNEKPYVCK IPGCTKRYTD PSSLRKHVKT VHGP EAHVTK KQRGDIHPRP PPRDSGSHS QSRSPGRPTQ GALGEQQDLS NTSKREECL QVKTVKAEKP MTSQSPGGQ SSCSSQSPI

SNYSNSGLEL PLTDGGSIGD LSAIDETPIM DSTISTATTA LALQARRNPA GTKWMEHVKL  
ERLKQVNGMF PRLNPILPPK APAVSPLIGN GTQSNNTCSL GGPMTLLPGR SDLSGVDVTM  
LNMLNRRDSS ASTISSAYLS SRRSSGISPC FSSRRSSEAS QAEGRPQNVV VADSYDPIST  
DASRRSSEAS QSDGLPSLLS LTPAQYRLK AKYAAATGGP PPTPLPNMER MSLKTRLALL  
GDALEPGVAL PPVHAPRRCS DGGAHGYGRR HLQPHDAPGH GVERRASDPVR TGSEGLALPR  
VPRFSSLSSC NPPAMATSAE KRSLVLQNYT RPEGGQSRNF HSSPCPPSIT ENVTLESMTM  
DADANLNDED FLPDDVVQYL NSQNQAGYEQ HFPSALPDDS KVPHPGPGDFD APGLPDSHAG  
QQFHALEQPC PEGSKTDLPI QWNEVSSGSA DLSSSKLKCG PRPAVPQTRA FGFCNGMVVH  
PQNPLRSGPA GGYQTLGENS NPYGGPEHLM LHNSPGSGTS GNAFHEQPCK APQYGNCLNR  
QPVPAGALDG ACGAGIQASK LKSTPMQSGS GQLNFGLPVA PNESAGSMVN GMQNQDPVGO  
GYLAHQLLGD SMQHPGAGRP GQQMLGQISA TSHINIQGP ESCLPGAHGGM GSQPSSLAVV  
RGYQPCASFG GSRQAMPRD SLALQSGQLS DTSQTCRVNG IKMEMKGQPH PLCSNLQNYV  
GQFYDQTVGF SQQDTKAGSF SISDASCLLQ GTSAKNSELL SPGANQVTST VDSLDSHDLE  
GVQIDFDAIL DDGDHSSLMS GALSPSIIQN LSHSSRLTT PRASLPFPAL SMSTTNMAIG  
DMSSLLTSLA EESKFLAVMQ **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.**

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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.

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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.

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

## Product Details

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Grade: custom-made

## Target Details

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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 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

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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.

Restrictions: For Research Use only

## Handling

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Format: Liquid

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

Handling Advice: Avoid repeated freeze-thaw cycles.

## Handling

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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