

Datasheet for ABIN7554001
GLI2 Protein (AA 1-1586) (His tag)



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Overview

Quantity:	1 mg
Target:	GLI2
Protein Characteristics:	AA 1-1586
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GLI2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant GLI2 Protein expressed in mammalian cells.
Sequence:	METSASATAS EKQEAKSGIL EAAGFPDPGK KASPLVVAAA AAAAVAAQGV PQHLLPPFHA PLPIDMRHQE GRYHYEPHSV HGVHGPPALS GSPVISDISL IRLSPHPAGP GESPFNAPHP YVNPHEMEHYL RSVHSSPTLS MISAARGLSP ADVAQEHLKE RGLFGLPAPG TTPSDYYHQM TLVAGHPAPY GDLLMQSGGA ASAPHLHDYL NPVDVSRFSS PRVTPRLSRK RALSISPLSD ASLDLQRMIR TSPNSLVAYI NNSRSSSAAS GSYGHLSAGA LSPAFTFPHP INPVAYQQIL SQQRGLGSAF GHTPPLIQPS PTFLAQQPMALTSINATPTQLSSSSNCLSD TNQNKQSSSES AVSSTVNPVA IHKRSKVKTE PEGLRPASPL ALTQGQVSGH GSCGCALPLS QEQLADLKED LDRDDCKQEA EVVIYETNCH WEDCTKEYDT QEQLVHHINN EHIHGEKKEF VCRWQACTRE QKPFKAQYML VVHMRRHTGE KPHKCTFEGC SKAYSRLLENL KTHLRSHTGE KPYVCEHEGC NKAFSNASDR AKHQNRTHSN EKPICKIPG CTKRYTDPSS LRKHVKTVHG PDAHVTKKQR NDVHLRTPLL KENGSEAGT EPGGPSTEASSTSQAVEDC LHVRAIKTES SGLCQSSPGA QSSCSSESPS LGSAPNNDSSG VEMPGTGPGS LGDLTALDDT PPGADTSALA APSAGGLQLR

KHMTTMHRFE QLKKEKLKSL KDSCSWAGPT PHTRNTKLPP LPGSGSILEN FSGSGGGGPA
GLLPNPRLSE LSASEVTMLS QLQERRDSST STVSSAYTVS RRSSGISPYF SSRRSSEASP
LGAGRPHNAS SADSYPDIST DASRRSSEAS QCSGGSGLLN LTPAQQYSLR AKYAAATGGP
PPTPLPGLER MSLRTRLALL DAPERTLPAG CPRPLGPRRG SDGPTYGHGH AGAAPAFPHE
APGGGARRAS DPVRRPDALS LPRVQRFHST HNVNPGPLPP CADRRGLRLQ SHPSTDGGLA
RGAYSPRPPS ISENVAMEAV AAGVDGAGPE ADLGLPEDDL VLPDDVVQYI KAHASGALDE
GTGQVYPTES TGFSNPNRPL SPGLHGQRRM VAADSNVGPS APMLGGCQLG FGAPSSLNKN
NMPVQWNEVS SGTVDALASQ VKPPFPQGN LAVVQKPAF GQYPGYSPQG LQASPGGLDS
TQPHLQPRSG APSQGIPRVN YMQQLRQPAV GSQCPCGTTTT MSPHACYGQV HPQLSPSTIS
GALNQFPQSC SNMPAKPGHL GHPQQTEVAP DPTTMGNNRHR ELGVPDSALA GVPPPHPVQS
YPQQSHHLAA SMSQEGYHGV PSLPARQPG FMEPQTGPMG VATAGFGLVQ PRPPLEPSPT
GRHRGVRAVQ QQLAYARATG HAMAAMPSSQ ETAEAVPKGA MGNMGSVPPQ PPPQDAGGAP
DHSMYYYYGQ IHMYEQDGL ENLGSCQVMR SQPPQPACQ DSIQPQLPS PGVNQVSSTV
DSQLLEAPQI DFDAIMDDGD HSSLFSGALS PSLHLSLQN SSRLTTPRNS LTLPSIPAGI
SNMAVGDMSS MLTSLAEESK FLNMMT **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.

Product Details

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

Target Details

Target:	GLI2
Alternative Name:	GLI2 (GLI2 Products)

Background:	Zinc finger protein GLI2 (GLI family zinc finger protein 2) (Tax helper protein),FUNCTION: Functions as a transcription regulator in the hedgehog (Hh) pathway (PubMed:18455992, PubMed:26565916). Functions as a transcriptional activator (PubMed:9557682, PubMed:19878745, PubMed:24311597). May also function as transcriptional repressor (By similarity). Requires STK36 for full transcriptional activator activity. Required for normal embryonic development (PubMed:15994174, PubMed:20685856). {ECO:0000250 UniProtKB:Q0VGT2, ECO:0000269 PubMed:15994174, ECO:0000269 PubMed:18455992, ECO:0000269 PubMed:19878745, ECO:0000269 PubMed:24311597, ECO:0000269 PubMed:26565916, ECO:0000269 PubMed:9557682, ECO:0000305 PubMed:20685856}., FUNCTION: [Isoform 1]: Involved in the smoothened (SHH) signaling pathway. {ECO:0000269 PubMed:18455992}., FUNCTION: [Isoform 2]: Involved in the smoothened (SHH) signaling pathway. {ECO:0000269 PubMed:18455992}., FUNCTION: [Isoform 3]: Involved in the smoothened (SHH) signaling pathway. {ECO:0000269 PubMed:18455992}., FUNCTION: [Isoform 4]: Involved in the smoothened (SHH) signaling pathway. {ECO:0000269 PubMed:18455992}., FUNCTION: [Isoform 1]: Acts as a transcriptional activator in T-cell leukemia virus type 1 (HTLV-1)-infected cells in a Tax-dependent manner. Binds to the DNA sequence 5'-GAACCACCCA-3' which is part of the Tax-responsive element (TRE-2S) regulatory element that augments the Tax-dependent enhancer of HTLV-1 (PubMed:9557682). {ECO:0000269 PubMed:15994174, ECO:0000269 PubMed:9557682}., FUNCTION: [Isoform 2]: (Microbial infection) Acts as a transcriptional activators in T-cell leukemia virus type 1 (HTLV-1)-infected cells in a Tax-dependent manner. Binds to the DNA sequence 5'-GAACCACCCA-3' which is part of the Tax-responsive element (TRE-2S) regulatory element that augments the Tax-dependent enhancer of HTLV-1 (PubMed:9557682). {ECO:0000269 PubMed:15994174, ECO:0000269 PubMed:9557682}., FUNCTION: [Isoform 3]: (Microbial infection) Acts as a transcriptional activators in T-cell leukemia virus type 1 (HTLV-1)-infected cells in a Tax-dependent manner. Binds to the DNA sequence 5'-GAACCACCCA-3' which is part of the Tax-responsive element (TRE-2S) regulatory element that augments the Tax-dependent enhancer of
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Target Details

HTLV-1 (PubMed:9557682). {ECO:0000269|PubMed:15994174, ECO:0000269|PubMed:9557682}., FUNCTION: [Isoform 4]: (Microbial infection) Acts as a transcriptional activators in T-cell leukemia virus type 1 (HTLV-1)-infected cells in a Tax-dependent manner. Binds to the DNA sequence 5'-GAACCACCCA-3' which is part of the Tax-responsive element (TRE-2S) regulatory element that augments the Tax-dependent enhancer of HTLV-1 (PubMed:9557682). {ECO:0000269|PubMed:15994174, ECO:0000269|PubMed:9557682}., FUNCTION: [Isoform 5]: Acts as a transcriptional repressor. {ECO:0000269|PubMed:15994174}.

Molecular Weight:	167.8 kDa
UniProt:	P10070
Pathways:	Hedgehog Signaling , Dopaminergic Neurogenesis

Application Details

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

Format:	Liquid
Buffer:	The buffer composition 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:	12 months