

Datasheet for ABIN7555091

Patched 1 Protein (PTCH1) (AA 1-1447) (His tag)



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Overview

Quantity:	1 mg
Target:	Patched 1 (PTCH1)
Protein Characteristics:	AA 1-1447
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Patched 1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat PTCH1 Protein expressed in mammalian cells.
Sequence:	MASAGNAAEP QDRGGGGSGC IGAPGRPAGG GRRRRTGGLR RAAAPDRDYL HRPSYCDAAF ALEQISKGKA TGRKAPLWLR AKFQRLFLK GCYIQKNCCK FLVVGLLIFG AFAVGLKAAN LETNVEELWV EVGGRVSREL NYTRQKIGEE AMFNPQLMIQ TPKEEGANVL TTEALLQHLD SALQASRVHV YMYNRQWKLE HLCYKSGELI TETGYMDQII EYLYPCLIT PLDCFWEAK LQSGTAYLLG KPPLRWTNFD PLEFLEELKK INYQVDSWEE MLNKAEVGHG YMDRPLNPA DPDCPATAPN KNSTKPLDMA LVLNGGCHGL SRKYMHWQEE LIVGGTVKNS TGKLVSAHAL QTMFQLMTPK QMYEHFKGYE YVSHINWNED KAAAILEAWQ RTYVEVVHQS VAQNSTQKVL SFTTTTLLDDI LKSFSDVSVI RVASGYLLML AYACLTMLRW DCSKSQGAVG LAGVLLVALS VAAGLGLCSL IGISFNAATT QVLPFLALGV GVDDVFLLAH AFSETGQNK R IPFEDRTGEC LKRTGASVAL TSISNVTAF MAALIPAL RAFSLQAAVV VVFNFAMVLL IFPAILSMDL YRREDRLDI FCCFTSPCVS RVIQVEPQAY TDTHDNTRYSPPPPYSSHSAHETQITMQS

TVQLRTEYDP HTHVYYTTAE PRSEISVQPV TVTQDTLSCQ SPESTSSTRD LLSQFSDSSL
HCLEPPCTKW TLSSFAEKHY APFLLKPKAK VVVIFLFLGL LGVSLYGTTTR VRDGLDLTDI
VPRETREYDF IAAQFKYFSF YNMYIVTQKA DYPNIQHLLY DLHRSFSNVK YVMLEENKQL
PKMWLHYFRD WLQGLQDAFD SDWETGKIMP NNYKNGSDDG VLAYKLLVQT GSRDKPIDIS
QLTKQRLVDA DGIINPSAFY IYLTAWVSND PVAYAASQAN IRPHRPEWVH DKADYMPETR
LRIPAAEPIE YAQFPFYLNG LRDTSDFVEA IEKVRTICSN YTSLGLSSYP NGYPFLFWEQ
YIGLRHWLLL FISVVLACTF LVCAVLLNP WTAGIIVMVL ALMTVELFGM MGLIGIKLSA
VPVVILIASV GIGVEFTVHV ALAFLTAIGD KNRRAVLALE HMFAPVLDGA VSTLLGVLML
AGSEFDFIVR YFFAVLAILT ILGVNLGLVL LPVLLSFFGP YPEVSPANGL NRLPTPSPEP
PPSVVRFAMP PGHTHSGSDS SDSEYSSQTT VSGLSEELRH YEAQQGAGGP AHQVIVEATE
NPVFAHSTVV HPESRHHPPS NPRQQPHLDS GSLPPGRQQG QPRRDPPREG LWPPPYRPRR
DAFEISTEGH SGPSNRARWG PRGARSHNPR NPASTAMGSS VPGYCQPITT VTASASVTV
VHPPVPVPGPG RNPRGGCLPG YPETDHGLFE DPHVPFHVRC ERRDSKVEVI ELQDVECEER
PRGSSSN **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.**

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, Western Blot

Grade:

custom-made

Target Details

Target:	Patched 1 (PTCH1)
Alternative Name:	PTCH1 (PTCH1 Products)
Background:	Protein patched homolog 1 (PTC) (PTC1),FUNCTION: Acts as a receptor for sonic hedgehog (SHH), indian hedgehog (IHH) and desert hedgehog (DHH). Associates with the smoothened protein (SMO) to transduce the hedgehog's proteins signal. Seems to have a tumor suppressor function, as inactivation of this protein is probably a necessary, if not sufficient step for tumorigenesis. {ECO:0000269 PubMed:21537345}.
Molecular Weight:	160.5 kDa
UniProt:	Q13635
Pathways:	Hedgehog Signaling , Carbohydrate Homeostasis , Tube Formation

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.
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