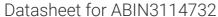
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Patched 1 Protein (PTCH1) (AA 1-1447) (rho-1D4 tag)





Go to Product page

Overview

Quantity:	1 mg
Target:	Patched 1 (PTCH1)
Protein Characteristics:	AA 1-1447
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Patched 1 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

MASAGNAAEP QDRGGGGSGC IGAPGRPAGG GRRRRTGGLR RAAAPDRDYL HRPSYCDAAF ALEQISKGKA TGRKAPLWLR AKFQRLLFKL GCYIQKNCGK FLVVGLLIFG AFAVGLKAAN LETNVEELWV EVGGRVSREL NYTRQKIGEE AMFNPQLMIQ TPKEEGANVL TTEALLQHLD SALQASRVHV YMYNRQWKLE HLCYKSGELI TETGYMDQII EYLYPCLIIT PLDCFWEGAK LQSGTAYLLG KPPLRWTNFD PLEFLEELKK INYQVDSWEE MLNKAEVGHG YMDRPCLNPA DPDCPATAPN KNSTKPLDMA LVLNGGCHGL SRKYMHWQEE LIVGGTVKNS TGKLVSAHAL QTMFQLMTPK QMYEHFKGYE YVSHINWNED KAAAILEAWQ RTYVEVVHQS VAQNSTQKVL SFTTTTLDDI LKSFSDVSVI RVASGYLLML AYACLTMLRW DCSKSQGAVG LAGVLLVALS VAAGLGLCSL IGISFNAATT QVLPFLALGV GVDDVFLLAH AFSETGQNKR IPFEDRTGEC LKRTGASVAL TSISNVTAFF MAALIPIPAL RAFSLQAAVV VVFNFAMVLL IFPAILSMDL YRREDRRLDI FCCFTSPCVS RVIQVEPQAY TDTHDNTRYS PPPPYSSHSF AHETQITMQS TVQLRTEYDP HTHVYYTTAE PRSEISVQPV TVTQDTLSCQ SPESTSSTRD LLSQFSDSSL

HCLEPPCTKW TLSSFAEKHY APFLLKPKAK VVVIFLFLGL LGVSLYGTTR 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 LVCAVFLLNP WTAGIIVMVL ALMTVELFGM MGLIGIKLSA
VPVVILIASV GIGVEFTVHV ALAFLTAIGD KNRRAVLALE HMFAPVLDGA VSTLLGVLML
AGSEFDFIVR YFFAVLAILT ILGVLNGLVL LPVLLSFFGP YPEVSPANGL NRLPTPSPEP
PPSVVRFAMP PGHTHSGSDS SDSEYSSQTT VSGLSEELRH YEAQQGAGGP AHQVIVEATE
NPVFAHSTVV HPESRHHPPS NPRQQPHLDS GSLPPGRQGQ QPRRDPPREG LWPPPYRPRR
DAFEISTEGH SGPSNRARWG PRGARSHNPR NPASTAMGSS VPGYCQPITT VTASASVTVA
VHPPPVPGPG RNPRGGLCPG YPETDHGLFE DPHVPFHVRC ERRDSKVEVI ELQDVECEER
PRGSSSN

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

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Human PTCH1 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 receival 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.

The concentration of the protein is calculated using its specific absorption coefficient. We use

Product Details

	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:
	1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
	 The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
	 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. 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	
Target:	Patched 1 (PTCH1)
Alternative Name:	PTCH1 (PTCH1 Products)
Background:	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:	161.7 kDa Including tag.
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 gurantee
	though.

Application Details

insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag	ı) 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

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

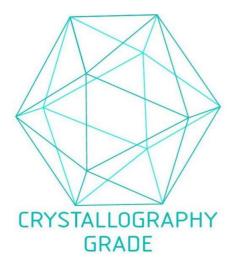


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process