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Patched 1 Protein (PTCH1) (AA 1-1434) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	Patched 1 (PTCH1)
Protein Characteristics:	AA 1-1434
Origin:	Mouse
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:

MASAGNAAGA LGRQAGGGRR RRTGGPHRAA PDRDYLHRPS YCDAAFALEQ ISKGKATGRK APLWLRAKFQ RLLFKLGCYI QKNCGKFLVV GLLIFGAFAV GLKAANLETN VEELWVEVGG RVSRELNYTR QKIGEEAMFN PQLMIQTPKE EGANVLTTEA LLQHLDSALQ ASRVHVYMYN RQWKLEHLCY KSGELITETG YMDQIIEYLY PCLIITPLDC FWEGAKLQSG TAYLLGKPPL RWTNFDPLEF LEELKKINYQ VDSWEEMLNK AEVGHGYMDR PCLNPADPDC PATAPNKNST KPLDVALVLN GGCQGLSRKY MHWQEELIVG GTVKNATGKL VSAHALQTMF QLMTPKQMYE HFRGYDYVSH INWNEDRAAA ILEAWQRTYV EVVHQSVAPN STQKVLPFTT TTLDDILKSF SDVSVIRVAS GYLLMLAYAC LTMLRWDCSK SQGAVGLAGV LLVALSVAAG LGLCSLIGIS FNAATTQVLP FLALGVGVDD VFLLAHAFSE TGQNKRIPFE DRTGECLKRT GASVALTSIS NVTAFFMAAL IPIPALRAFS LQAAVVVVFN FAMVLLIFPA ILSMDLYRRE DRRLDIFCCF TSPCVSRVIQ VEPQAYTEPH SNTRYSPPPP YTSHSFAHET HITMQSTVQL RTEYDPHTHV YYTTAEPRSE ISVQPVTVTQ DNLSCQSPES TSSTRDLLSQ FSDSSLHCLE PPCTKWTLSS

FAEKHYAPFL LKPKAKVVVI LLFLGLLGVS LYGTTRVRDG LDLTDIVPRE TREYDFIAAQ

FKYFSFYNMY IVTQKADYPN IQHLLYDLHK SFSNVKYVML EENKQLPQMW LHYFRDWLQG

LQDAFDSDWE TGRIMPNNYK NGSDDGVLAY KLLVQTGSRD KPIDISQLTK QRLVDADGII

NPSAFYIYLT AWVSNDPVAY AASQANIRPH RPEWVHDKAD YMPETRLRIP AAEPIEYAQF

PFYLNGLRDT SDFVEAIEKV RVICNNYTSL GLSSYPNGYP FLFWEQYISL RHWLLLSISV

VLACTFLVCA VFLLNPWTAG IIVMVLALMT VELFGMMGLI GIKLSAVPVV ILIASVGIGV

EFTVHVALAF LTAIGDKNHR AMLALEHMFA PVLDGAVSTL LGVLMLAGSE FDFIVRYFFA

VLAILTVLGV LNGLVLLPVL LSFFGPCPEV SPANGLNRLP TPSPEPPPSV VRFAVPPGHT

NNGSDSSDSE YSSQTTVSGI SEELRQYEAQ QGAGGPAHQV IVEATENPVF ARSTVVHPDS

RHQPPLTPRQ QPHLDSGSLS PGRQGQQPRR DPPREGLRPP PYRPRRDAFE ISTEGHSGPS

NRDRSGPRGA RSHNPRNPTS TAMGSSVPSY CQPITTVTAS ASVTVAVHPP PGPGRNPRGG

PCPGYESYPE TDHGVFEDPH VPFHVRCERR DSKVEVIELQ DVECEERPWG SSSN

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.
- Mouse 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 the Expasy's protparam tool to determine the absorption coefficient of each protein.

Product Details

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.
	2. The best performing detergent is used for solubilization and the proteins are purified via thei 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:	160.4 kDa Including tag.
UniProt:	Q61115
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 gurante though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher

Application Details

	molecular weight tag (e.g. GST-tag) 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

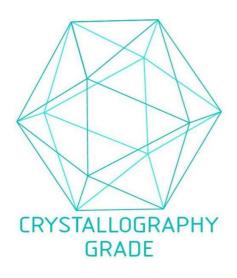


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process