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Datasheet for ABIN3119177 FZD1 Protein (AA 70-647) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	FZD1 (Fzd1)
Protein Characteristics:	AA 70-647
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FZD1 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	VRAQAAGQGP GQGPGPGQQP PPPPQQQQSG QQYNGERGIS VPDHGYCQPI SIPLCTDIAY
	NQTIMPNLLG HTNQEDAGLE VHQFYPLVKV QCSAELKFFL CSMYAPVCTV LEQALPPCRS
	LCERARQGCE ALMNKFGFQW PDTLKCEKFP VHGAGELCVG QNTSDKGTPT PSLLPEFWTS
	NPQHGGGGHR GGFPGGAGAS ERGKFSCPRA LKVPSYLNYH FLGEKDCGAP CEPTKVYGLM
	YFGPEELRFS RTWIGIWSVL CCASTLFTVL TYLVDMRRFS YPERPIIFLS GCYTAVAVAY
	IAGFLLEDRV VCNDKFAEDG ARTVAQGTKK EGCTILFMML YFFSMASSIW WVILSLTWFL
	AAGMKWGHEA IEANSQYFHL AAWAVPAIKT ITILALGQVD GDVLSGVCFV GLNNVDALRG
	FVLAPLFVYL FIGTSFLLAG FVSLFRIRTI MKHDGTKTEK LEKLMVRIGV FSVLYTVPAT
	IVIACYFYEQ AFRDQWERSW VAQSCKSYAI PCPHLQAGGG APPHPPMSPD FTVFMIKYLM
	TLIVGITSGF WIWSGKTLNS WRKFYTRLTN SKQGETTV
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.

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Product Details	
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Human FZD1 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.
Purification:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:
	 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.
	3. 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

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Target Details		
Target:	FZD1 (Fzd1)	
Alternative Name:	FZD1 (Fzd1 Products)	
Background:	Receptor for Wnt proteins. Most of frizzled receptors are coupled to the beta-catenin canonical signaling pathway, which leads to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin and activation of Wnt target genes. A second signaling pathway involving PKC and calcium fluxes has been seen for some family members, but it is not yet clear if it represents a distinct pathway or if it can be integrated in the canonical pathway, as PKC seems to be required for Wnt-mediated inactivation of GSK-3 kinase. Both pathways seem to involve interactions with G-proteins. May be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues. Activated by Wnt3A, Wnt3, Wnt1 and to a lesser extent Wnt2, but not by Wnt4, Wnt5A, Wnt5B, Wnt6, Wnt7A or Wnt7B.	
Molecular Weight:	65.1 kDa Including tag.	
UniProt:	Q9UP38	
Pathways:	WNT Signaling, Asymmetric Protein Localization	
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.	
Comment:	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 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	

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 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

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