antibodies .- online.com





R-Spondin 4 Protein (RSPO4) (AA 20-234) (His tag)



\sim					
)\/e	r	٦\/	10	1///

Quantity:	1 mg
Target:	R-Spondin 4 (RSPO4)
Protein Characteristics:	AA 20-234
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This R-Spondin 4 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)
Product Details	
Sequence:	LNRRKKQVGT GLGGNCTGCI ICSEENGCST CQQRLFLFIR REGIRQYGKC LHDCPPGYFG
	IRGQEVNRCK KCGATCESCF SQDFCIRCKR QFYLYKGKCL PTCPPGTLAH QNTRECQGEC
	ELGPWGGWSP CTHNGKTCGS AWGLESRVRE AGRAGHEEAA TCQVLSESRK CPIQRPCPGE
	RSPGQKKGRK DRRPRKDRKL DRRLDVRPRQ PGLQP
	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 RSP04 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

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:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. 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.

specific reference buffer.

Grade:

Crystallography grade

Target Details

Target:	R-Spondin 4 (RSPO4)
Alternative Name:	RSP04 (RSP04 Products)
Background:	Activator of the canonical Wnt signaling pathway by acting as a ligand for LGR4-6 receptors.
	Upon binding to LGR4-6 (LGR4, LGR5 or LGR6), LGR4-6 associate with phosphorylated LRP6
	and frizzled receptors that are activated by extracellular Wnt receptors, triggering the canonical

Target Details

	Wnt signaling pathway to increase expression of target genes. Also regulates the canonical
	Wnt/beta-catenin-dependent pathway and non-canonical Wnt signaling by acting as an inhibitor
	of ZNRF3, an important regulator of the Wnt signaling pathway.
	{ECO:0000269 PubMed:21727895, ECO:0000269 PubMed:21909076}.
Molecular Weight:	25.1 kDa Including tag.
UniProt:	Q2I0M5
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.
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	
Storage Comment:	Store at -80°C.	
Expiry Date:	Unlimited (if stored properly)	