antibodies -online.com





R-Spondin 4 Protein (RSPO4) (AA 20-228) (His tag)



Image



Go to Product page

Overview

1 mg
R-Spondin 4 (RSPO4)
AA 20-228
Mouse
Insect Cells
Recombinant
This R-Spondin 4 protein is labelled with His tag.
Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)
LYRRKKQAGT GLGGNCTGCV ICSEENGCST CQQRLFLFIR REGIRQYGKC VHDCPLGFFG
IRGQEANRCK KCGATCESCF SQDFCIRCKR RFHLYKGKCL PSCPPGTLTH QSTRECQEEC
EPSPWGSWSP CIHNGKTCGS GWGLETRVRE AGPAKQEETA SCRVLSESRK CPIKRLCPGE
RNPRQKNRKD RRQRKDRKLE RRPHQRGSQ
Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.
special request, please contact us.
 special request, please contact us. Made in Germany - from design to production - by highly experienced protein experts. Mouse Rspo4 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
 special request, please contact us. Made in Germany - from design to production - by highly experienced protein experts. Mouse Rspo4 Protein (raised in Insect Cells) purified by multi-step, protein-specific process
 special request, please contact us. Made in Germany - from design to production - by highly experienced protein experts. Mouse Rspo4 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.

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:

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

- 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.

Grade:

Crystallography grade

Target Details

Target:	R-Spondin 4 (RSPO4)
Alternative Name:	Rspo4 (RSPO4 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

Storage Comment:

Expiry Date:

Store at -80°C.

Unlimited (if stored properly)

l arget 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:21693646}.
Molecular Weight:	24.8 kDa Including tag.
UniProt:	Q8BJ73
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:	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
	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



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