

Datasheet for ABIN7317631 R-Spondin 3 Protein (RSPO3) (AA 1-146) (His tag)



Overview

Quantity:	50 µg
Target:	R-Spondin 3 (RSP03)
Protein Characteristics:	AA 1-146
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This R-Spondin 3 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human RSP03 Protein (aa 1-146, His Tag)(Active)
Sequence:	Met 1-Val 146
Characteristics:	A DNA sequence encoding the amino acids (Met 1-Val 146) of human RSPO3 (Q9BXY4-1) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 96 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA.2. Immobilized RSPO3-His (146) at 10 μ g/mL (100 μ L/well) can bind human RNF43-Fc .The EC50 of human RNF43-Fc is 0.01-0.03 μ g/mL.

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Target Details	
Target:	R-Spondin 3 (RSP03)
Alternative Name:	RSP03 (RSP03 Products)
Background:	Background: R-spondin 3 (RSPO3) is a member of the R-Spondin (RSPO) family in vertebrates
	that activate Wnt/beta-catenin signaling, plays a key role in these processes. The RSPO family
	of secreted Wnt modulators is involved in development and disease and holds therapeutic
	promise as stem cell growth factors. The four members have high structural homology. RSP02
	and RSP03 are more potent than RSP01, whereas RSP04 is relatively inactive. All RSP0
	members require Wnt ligands and LRP6 for activity and amplify signaling of Wnt3A, Wnt1, and
	Wnt7A, suggesting that RSPO proteins are general regulators of canonical Wnt signaling.
	RSP03/PCP signaling during gastrulation requires Wnt5a and is transduced via Fz7, Dvl, and
	JNK. RSP03 functions by inducing Sdc4-dependent, clathrin-mediated endocytosis. RSP03 is a
	novel, evolutionarily conserved angiogenic factor in embryogenesis. RSPO3 has a key role in the
	interaction between chorion and allantois in labyrinthine development.
	Synonym: R-spondin-3,RSP03,Protein with TSP type-1 repeat, Roof plate-specific spondin-3,
	Thrombospondin type-1 domain-containing protein 2, PWTSR, THSD2, CRISTIN1
Molecular Weight:	15.3 kDa
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.