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Datasheet for ABIN7536458

CER1 Protein (His tag)



Overview

Quantity:	100 μg
Target:	CER1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CER1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CER1/DAND4 Protein
Sequence:	TRHQDGRQNQ SSLSPVLLPR NQRELPTGNH EEAEEKPDLF VAVPHLVATS PAGEGQRQRE
	KMLSRFGRFW KKPEREMHPS RDSDSEPFPP GTQSLIQPID GMKMEKSPLR EEAKKFWHHF
	MFRKTPASQG VILPIKSHEV HWETCRTVPF SQTITHEGCE KVVVQNNLCF GKCGSVHFPG
	AAQHSHTSCS HCLPAKFTTM HLPLNCTELS SVIKVVMLVE ECQCKVKTEH EDGHILHAGS
	QDSFIPGVSA
Specificity:	Thr18-Ala267
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 μm filtered
Endotoxin Level:	< 0.01EU/µg

Target Details

Target Details

Alternative Name:	CER1/DAND4 (CER1 Products)
Background:	Description: Cerberus 1, also called DAND4, is a member of the DAN domain family of BMP
	antagonists that includes DAN (DAND1), Gremlin/Drm (DAND2), PRDC (Protein Related to Dan
	and Cerberus, DAND3), and COCO/Dante (DAND5). DAN family members contain a cysteine-
	knot domain that is homologous to that found in other TGF-beta superfamily ligands. Mature
	human Cerberus 1 shares 67 % and 68 % amino acid (aa) sequence identity with mouse and ra
	Cerberus 1, respectively. Within the cysteine-knot domain, it shares 24 %-37 % aa sequence
	identity with mouse DAN, Gremlin, PRDC, and COCO. Cerberus 1 is a secreted 38 kDa
	glycoprotein that forms homodimers. Cerberus-S, which is generated by proteolysis in Xenopus
	is a short version of the molecule and includes the C-terminal cysteine-knot domain. At the
	onset of gastrulation, Cerberus 1 is transiently expressed in anterior endodermal structures in
	response to Nodal and Shh . Cerberus 1 binds BMP-4 and Nodal and inhibits their activities.
	Xenopus Cerberus has also been shown to bind Xenopus Wnt8. These inhibitory functions of
	Cerberus favor mesodermal development in the anterior region of the gastrula and suppresses
	posterior mesodermal differentiation. In chick and Xenopus, Cerberus 1 also regulates, but is
	not required for embryonic left-right polarization, neurulation, and head and heart induction.
	Name: DAND4,CER1
Gene ID:	9350
UniProt:	095813
Pathways:	Maintenance of Protein Location
Application Details	
Restrictions:	For Research Use only
Handling	
	Lyophilized
Format:	
	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile
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Format: Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is
	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 %

Handling

Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein
	solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.