

Datasheet for ABIN7273947

ICOSLG Protein (AA 19-256) (His tag)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	ICOSLG
Protein Characteristics:	AA 19-256
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ICOSLG protein is labelled with His tag.

Product Details

Purpose:	Cynomolgus B7-H2/ICOSLG Protein
Sequence:	Asp19-Thr256
Characteristics:	Recombinant Cynomolgus B7-H2/ICOSLG Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Asp19-Thr256.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 5.42 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	ICOSLG
Alternative Name:	B7-H2 (ICOSLG Products)
Background:	B7-H2, also known as B7-related protein (B7RP1), ICOS Ligand, and CD275, is an approximately 60 kDa transmembrane glycoprotein in the B7 family of immune regulatory molecules. B7-H2 is a ligand for the T-cell-specific cell surface receptor ICOS. Acts as a costimulatory signal for T-cell proliferation and cytokine secretion, induces also B-cell proliferation and differentiation into plasma cells.
Molecular Weight:	27.7 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.
NCBI Accession:	XP_005548617
Pathways:	Production of Molecular Mediator of Immune Response , Activated T Cell Proliferation

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

Surface Plasmon Resonance

Image 1. Human ICOS, hFc Tag captured on CM5 Chip via Protein A can bind Cynomolgus B7-H2, His Tag with an affinity constant of 5.42 nM as determined in SPR assay (Biacore T200).

SDS-PAGE

Image 2. Cynomolgus B7-H2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Cynomolgus B7-H2 is greater than 95 % as determined by SEC-HPLC.

