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Datasheet for ABIN7273971 ICOSLG Protein (AA 47-279) (His tag)

3 Images



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Quantity:	100 μg
Target:	ICOSLG
Protein Characteristics:	AA 47-279
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ICOSLG protein is labelled with His tag.

Product Details

Purpose:	Mouse B7-H2/ICOSLG Protein
Sequence:	Glu47-Lys279
Characteristics:	Recombinant Mouse B7-H2/ICOSLG Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Glu47-Lys279.
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 0.329 μM 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:	27.4 kDa. Due to glycosylation, the protein migrates to 45-70 kDa based on Tris-Bis PAGE result.				
Pathways:	Production of Molecular Mediator of Immune Response, Activated T Cell Proliferation				
Application Details					
Restrictions:	For Research Use only				
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.				

-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after

smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into

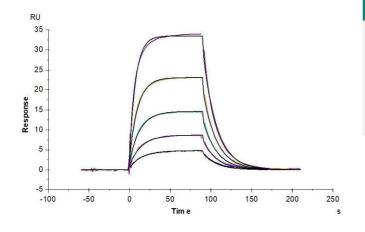
-20 °C,-80 °C

12 months

Storage:

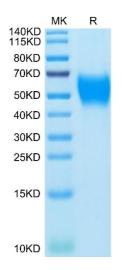
Expiry Date:

Storage Comment:



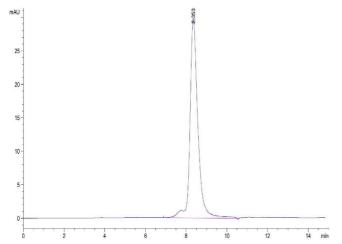
Surface Plasmon Resonance

Image 1. Mouse ICOS, hFc Tag captured on CM5 Chip via Protein A can bind Mouse B7-H2, His Tag with an affinity constant of 0.329 μ M as determined in SPR assay (Biacore T200).



SDS-PAGE

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



Size-exclusion chromatography-High Pressure Liquid Chromatography

 $\label{eq:mage 3.} \textbf{Image 3.} \ \textbf{The purity of Mouse B7-H2} \ \textbf{is greater than 95 \% as} \\ \textbf{determined by SEC-HPLC}.$