

Recombinant Human Gi24 protein, Mouse IgG2a Fc-tagged, low endotoxin

Cat. No. Gi24-347H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Gi24 protein (Phe33-Ala194)(low endotoxin), fused to Mouse IgG2a Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	162
Description	Platelet receptor Gi24, also known as B7-H5 and stress-induced secreted protein-1 (Sisp-1), is a protein that in humans is encoded by the C10orf54 gene, which contains 1 Ig-like (immunoglobulin-like) domain. As for C10orf54 gene, C10orf54 appears to positively interact with BMP-4, potentiating BMP signaling and the transition from an undifferentiated to a differentiated state on ESCs. Human C10orf54 undergoes proteolytic cleavage by MT1-MMP, generating a soluble 30 kDa extracellular fragment plus a 25-30 kDa membrane-bound fragment.
Form	Lyophilized from 0.22 um filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 45.0 kDa. The protein migrates as 55-70 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 0.1 EU per ug by the LAL method.

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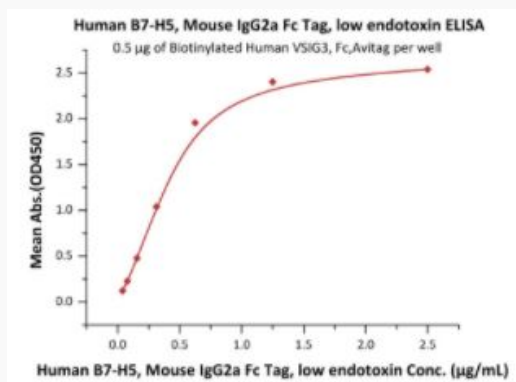
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
GENE INFORMATION	
Gene Name	VSIR
Official Symbol	VSIR
Synonyms	B7H5; GI24; B7-H5; Dies1; PD-1H; SISP1; VISTA; PP2135; C10orf54; DD1alpha
Gene ID	64115
mRNA Refseq	NM_022153.2
Protein Refseq	NP_071436.1
MIM	615608
UniProt ID	Q9H7M9

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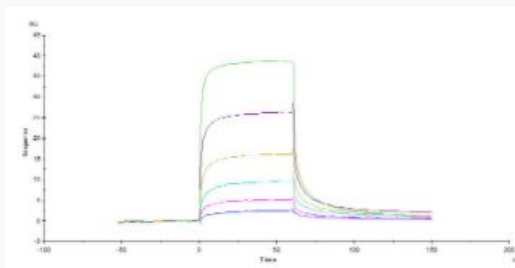
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Bioactivity-ELISA of Gi24-347H



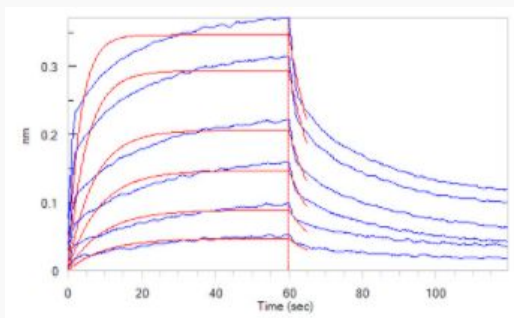
Immobilized Biotinylated Human VSIG3, Fc,Avitag at 5 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate, can bind Human B7-H5, Mouse IgG2a Fc Tag, low endotoxin with a linear range of 0.039-0.625 µg/mL (QC tested).

Bioactivity-SPR of Gi24-347H



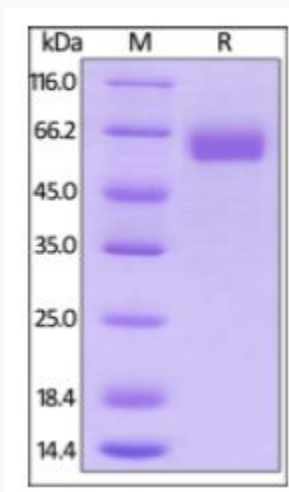
Human B7-H5, Mouse IgG2a Fc Tag, low endotoxin Captured on CM5 chip via anti-mouse antibodies surface can bind Human VSIG3, Fc Tag with an affinity constant of 8.87 µM as determined in a SPR assay (Routinely tested).

Bioactivity-BLI of Gi24-347H



Loaded Biotinylated Human VSIG3, Fc,Avitag on SA Biosensor, can bind Human B7-H5, Mouse IgG2a Fc Tag, low endotoxin with an affinity constant of 2.6 μ M as determined in BLI assay (Routinely tested).

SDS-PAGE of Gi24- 347H



Human B7-H5, Mouse IgG2a Fc Tag, low endotoxin on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.