

Recombinant Human VSIR protein, His-tagged

Cat. No. VSIR-19H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human VSIR protein (Phe33-Ala194), fused to His 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 PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 20.0 kDa. The protein migrates as 33-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.

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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

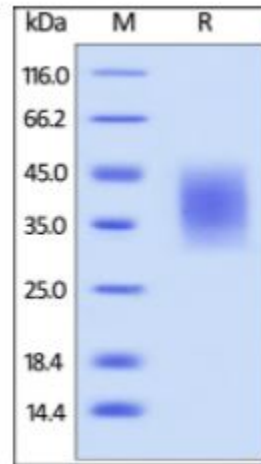
Gene Name	VSIR
Official Symbol	VSIR
Synonyms	B7H5; GI24; B7-H5; Dies1; PD-1H; SISP1; VISTA; PP2135; C10orf54; DD1alpha
Gene ID	64115
mRNA Refseq	NM_022153.2
Protein Refseq	NP_071436.1
MIM	615608
UniProt ID	Q9H7M9

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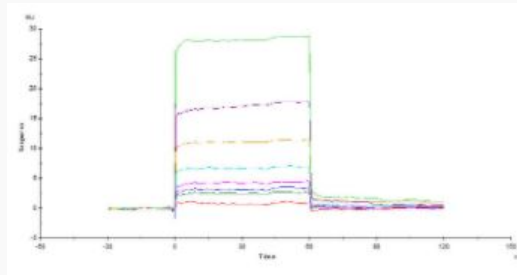
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SDS-PAGE of VSIR-19H



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

Bioactivity-SPR of VSIR-19H



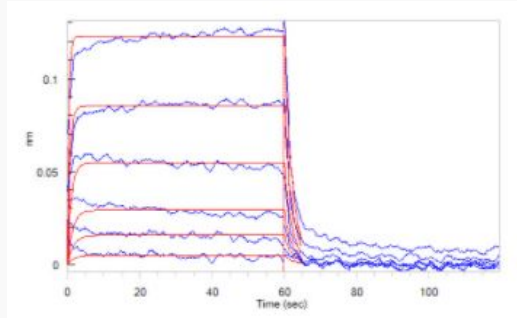
Captured Human VSIG3, Fc Tag on CM5 chip via Anti-human IgG Fc antibodies surface can bind Human B7-H5, His Tag with an affinity constant of 31.5 μM as determined in a SPR assay (Biacore T200) (Routinely tested).

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**Bioactivity-BLI of
VSIR-19H**



Loaded Human VSIG3, Fc Tag on AHC Biosensor, can bind Human B7-H5, His Tag with an affinity constant of 16 μM as determined in BLI assay (Routinely tested).

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