

Recombinant Mouse B7-H5/Gi24/VSIR Protein (His Tag)

Catalog Number:PKSM041125



Note: Centrifuge before opening to ensure complete recovery of vial contents.

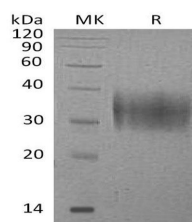
Description

Synonyms	Platelet receptor Gi24;stress induced secreted protein 1;Dies1;VISTA;SISP1;B7-H5;PD-1H;GI24
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Phe33-Ala191
Accession	Q9D659
Calculated Molecular Weight	18.6 kDa
Observed molecular weight	30-40 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Mouse Platelet receptor Gi24(VISTA) is a transmembrane glycoprotein with homology to B7like immune costimulatory molecules. Mature mouse Gi24 contains a 159 amino acid (aa) extracellular domain (ECD) with one V-type Ig-like domain, a 21 aa transmembrane segment, and a 97 aa cytoplasmic domain. VISTA promotes both MT1-MMP expression and the MT1-MMP mediated activation of MMP-2. It supports the differentiation of embryonic stem cells (ESC) and enhances BMP-4 induced signaling in ESC, but it is also down-regulated following BMP-4 exposure. It binds to BMP-4 directly and also associates with the type I BMP receptor Activin RIB/ALK-4. It is expressed on the surface of naive CD4+ T cells and regulatory T cells. It is up-regulated in vivo on activated monocytes and dendritic cells. VISTA inhibits

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CD4+ and CD8+ T cell proliferation and their production of IL-2 and IFN- γ . Its expression on tumor cells attenuates the antitumor immune response and enables more rapid tumor progression.

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