

Recombinant Mouse B7-H4/VTCN1 Protein (Fc Tag)

Catalog No. PKSM040966

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

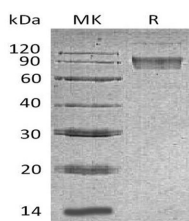
Description

Synonyms	V-set domain containing T-cell activation inhibitor 1;B7 homolog 4;Protein B7S1;B7-H4;VTCN1;B7h4;B7s1;B7x;BC032925
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Phe29-Pro258
Accession	AAH32925.1
Calculated Molecular Weight	52.2 kDa
Observed molecular weight	70-90 kDa
Tag	C-Fc
Bioactivity	Not validated for activity

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 V-set domain-containing T-cell activation inhibitor 1/VTCN1/B7-H4 is glycosylated member of the B7 family of

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immune co-stimulatory proteins. B7-H4 consists of extracellular domain (ECD) with one Ig-like V-set domain and one Ig-like C2-set domain. It is widely expressed, including in kidney, liver, lung, pancreas, placenta, prostate, spleen, testis and thymus. B7-H4 negatively regulates T-cell-mediated immune response by inhibiting T-cell activation, proliferation, cytokine production and development of cytotoxicity. When expressed on the cell surface of tumor macrophages, plays an important role, together with regulatory T-cells (Treg), in the suppression of tumor-associated antigen-specific T-cell immunity. It also involved in promoting epithelial cell transformation.