Recombinant Cynomolgus TIM-3/HAVCR2 Protein (Fc Tag)

Catalog Number: PKSQ050022

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

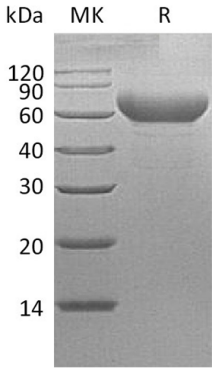
Description

Species	Cynomolgus macaques
Source	HEK293 Cells-derived Cynomolgus macaques TIM-3/HAVCR2 protein Ser22-Arg201, with an C-terminal Fc
Calculated MW	46.3 kDa
Observed MW	55-75 kDa
Accession	G7P6Q7
Bio-activity	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 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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% Tween 80 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

T cell immunoglobulin and mucin domain 3 is a member of the TIM family of immune regulating molecules. Mature cynomolgus TIM3 consists of a 182 amino acid (aa)extracellular domain (ECD), a 21 aa transmembrane segment, and a 78 aa cytoplasmic tail. TIM3 is up-regulated on several populations of activated myeloid cells (macrophage, monocyte, dendritic cell, microglia, mast cell) and T cells (Th1, CD8+, NK, Treg). Its binding to Galectin9 induces a range of immunosuppressive functions which enhance immune tolerance and inhibit anti-tumor immunity. TIM3 ligation attenuates CD8+ and Th1 cell responses and promotes the activity of Treg and myeloid derived suppressor cells. TIM3 interactions with Galectin-9 can trigger immune stimulatory effects, such as the coactivation of NK cell cytotoxicity.

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