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Recombinant Human TIM-3/HAVCR2 Protein (mFc Tag)

Catalog No. PKSH033790

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

Description

Synonyms Hepatitis A virus cellular receptor 2;HAVcr-2;T-cell immunoglobulin and mucin

domain-containing protein 3;TIMD-3;T-cell immunoglobulin mucin receptor

3;TIM-3;T-cell membrane protein 3;HAVCR2;TIM3;TIMD3

Species Human

Expression Host HEK293 Cells
Sequence Ser22-Arg200
Accession AAL65157.1
Calculated Molecular Weight 46.4 kDa
Observed molecular weight 55 kDa
Tag C-mFc

Bioactivity Not validated for activity

Properties

Purity > 80 % 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.

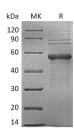
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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



> 80 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

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Hepatitis A virus cellular receptor 2 (HAVCR2) is a single-pass type I membrane protein and it contains 1 Ig-like V-type (immunoglobulin-like) domain. The protein belongs to the immunoglobulin superfamily; and TIM family of proteins. The protein regulates macrophage activation. It inhibits T-helper type 1 lymphocyte (Th1)-mediated auto- and alloimmune responses and promotes immunological tolerance. It may be also involved in T-cell homing and it is receptor for LGALS9. CD4 (MIM 186940)-positive T helper lymphocytes can be divided into types 1 (Th1) and 2 (Th2) on the basis of their cytokine secretion patterns. Th1 cells and their associated cytokines are involved in cell-mediated immunity to intracellular pathogens and delayed-type hypersensitivity reactions; whereas Th2 cells are involved in the control of extracellular helminthic infections and the promotion of atopic and allergic diseases. The 2 types of cells also crossregulate the functions of the other. TIM3 is a Th1-specific cell surface protein that regulates macrophage activation and enhances the severity of experimental autoimmune encephalomyelitis in mice.

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