

Recombinant Human TIM4/TIMD4 Protein (His Tag)

Catalog No. PKSH033511

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

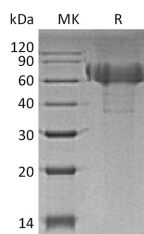
Description

Synonyms	T-cell immunoglobulin and mucin domain-containing protein 4;TIMD-4;T-cell immunoglobulin mucin receptor 4;TIM-4;T-cell membrane protein 4;TIMD4;TIM4;SMUCKLER
Species	Human
Expression Host	HEK293 Cells
Sequence	Glu25-Leu315
Accession	AAH08988.1
Calculated Molecular Weight	32.3 kDa
Observed molecular weight	60-90 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 90 % 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



> 90 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

T-cell Immunoglobulin and Mucin Domain-containing Protein 4 (TIM-4) belongs to the immunoglobulin superfamily, is a member of the TIM family of immune regulating proteins. TIMs are type I transmembrane proteins with one Ig-like V domain and one Ser/Thr-rich mucin domain. Structurally, TIM-4 is distinguished from other TIMs by the presence of an RGD motif in its Ig domain and the lack of a site for tyrosine phosphorylation in its cytoplasmic tail. The mucin domain in TIM-4 is larger than in TIM-1 or TIM-3. TIM-4 is expressed by macrophages and mature dendritic cells but not by lymphocytes. It is involved in regulating T-cell proliferation and lymphotoxin signaling. The interaction of TIM-4 with TIM-1 induces costimulatory and hyperproliferative signals in T cells. TIM-4 binds specifically to TIM-1 which is also the cellular receptor for the hepatitis A virus, and has been implicated in the development of asthma.