

## TIM-3/KIM-3/HAVCR2 Protein, Cynomolgus, Recombinant (His)

### General Information

Synonyms:	HAVCR2;Tim-3;TIM3;T cell immunoglobulin and mucin domain3
Protein Construction:	Ser22-Arg201
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	G7P6Q7
Molecular Weight:	26-30 KDa (reducing condition)
AA Sequence:	Ser22-Arg201

### QC Testing

Biological Activity:	Loaded Anti-Human TIM-3 mAb-Fc on Protein A Biosensor, can bind Cynomolgus TIM-3-His with an affinity constant of 9.69 nM as determined in BLI assay. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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-

## A DRUG SCREENING EXPERT

---

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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481