



# Recombinant Protein Technical Manual

## Recombinant Human TIM-3/HAVCR2 Protein (His Tag)(Active)

RPES4563

### Product Data:

**Product SKU:** RPES4563

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q8TDQ0

### Protein Information:

**Molecular Mass:** 20.86 kDa

**AP Molecular Mass:** 37 kDa

**Tag:** C-His

**Bio-activity:** Immobilized Human Galectin-9-GST at 2µg/ml(100 µl/well) can bind Human TIM-3-His.

**Purity:** > 95% as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 20mM PB, 150mM NaCl, pH 7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:** Functional ELISA

**Synonyms:** Hepatitis A Virus Cellular Receptor 2; HAVcr-2; T-Cell Immunoglobulin and Mucin Domain-Containing Protein 3; TIMD-3; T-Cell Membrane Protein 3; TIM-3; HAVCR2; TIM3; TIMD3

## Immunogen Information:

**Sequence:** Ser22-Arg200 (Arg140Leu)

## Background:

T-Cell Membrane Protein 3 (TIM3) is a single-pass type I membrane protein that belongs to the TIM family of immunoglobulin superfamily. TIM3 includes a signal sequence (aa 1-21), an extracellular region (aa 22-202) with one Ig-like V-type domain, a transmembrane segment (aa 203-223), and a cytoplasmic domain (aa 224 - 301). TIM3 regulates macrophage activation, 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 as a receptor for LGALS9.