

Synonym

TIM4,TIMD4,SMUCKLER

Source

Human TIM-4 Protein, His Tag(TI4-H52H3) is expressed from human 293 cells (HEK293). It contains AA Glu 25 - Gln 314 (Accession # [Q96H15-1](#)).

Molecular Characterization

TIM-4(Glu 25 - Gln 314)
Q96H15-1

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 33.4 kDa. The protein migrates as 55-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

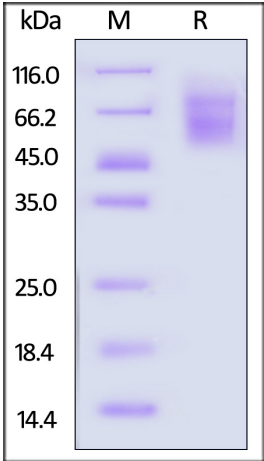
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human TIM-4 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Background

The T cell immunoglobulin mucin (TIM) proteins regulate T cell activation and tolerance. An essential step during clearance of apoptotic cells is the recognition of phosphatidylserine (PS) exposed on apoptotic cells by its receptors on phagocytes. The phosphatidylserine (PS) receptor Tim-4 mediates phagocytosis of apoptotic cells by binding to PS exposed on the surface of these cells, and thus functions as a PS receptor for apoptotic cells. Tim-4 directly binding to PS and functioning as a

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Human TIM-4 / TIMD4 Protein, His Tag

Catalog # TI4-H52H3



tethering receptor for phagocytosis of apoptotic cells has been extensively studied over the past decade. However, the molecular mechanisms by which Tim-4 collaborates with other engulfment receptors during efferocytosis remain elusive.

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