

Cynomolgus TIM-4 / TIMD4 Protein, His Tag (MALS verified)

Catalog # TI4-C52H3



Synonyms

TIM4, TIMD4, SMUCKLER

Source

Cynomolgus TIM-4 Protein, His Tag (TI4-C52H3) is expressed from human 293 cells (HEK293). It contains AA Glu 25 - Gln 305 (Accession # [XP_005558436.3](#)).

Predicted N-terminus: Glu 25

Molecular Characterization

TIM-4(Glu 25 - Gln 305) XP_005558436.3	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 32.3 kDa. The protein migrates as 55-80 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) 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.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in 20 mM HEPES, 150 mM NaCl, pH7.2 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.

Shipping and Storage

This product is shipped at ambient temperature.

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

Please avoid repeated freeze-thaw cycles.

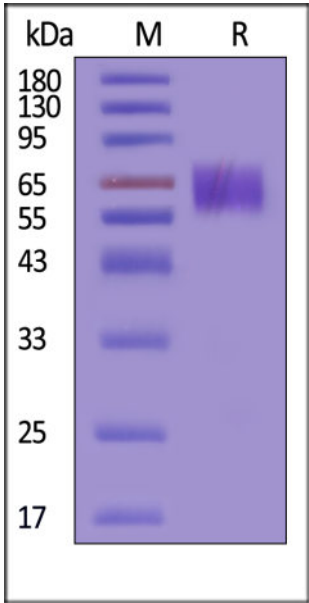
This product is stable after storage at:

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

ACRO Quality Management System

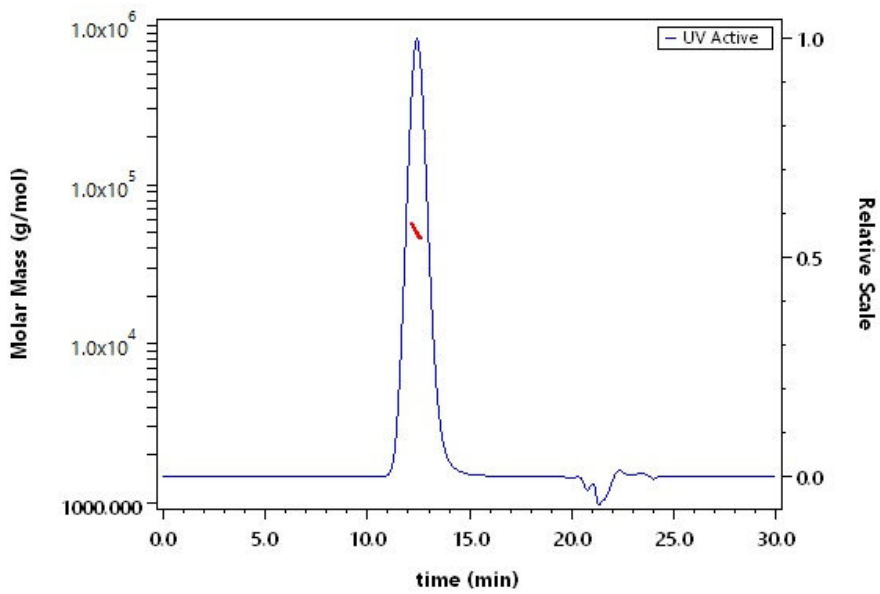
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Cynomolgus 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% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Cynomolgus TIM-4 Protein, His Tag (Cat. No. TI4-C52H3) is more than 95% and the molecular weight of this protein is around 45-65 kDa verified by SEC-MALS.

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 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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