

Human TRAC Protein, Fc Tag

Catalog # TRC-H5257



Synonyms

TRAC

Source

Human TRAC Protein, Fc Tag (TRC-H5257) is expressed from human 293 cells (HEK293). It contains AA Ile 1 - Ser 115 (Accession # [P01848-1](#)).

Predicted N-terminus: Ile 1

Molecular Characterization

TRAC(Ile 1 - Ser 115) P01848-1	Fc(Pro 100 - Lys 330) P01857-1
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 39.3 kDa. The protein migrates as 55-65 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

>90% 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.

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.

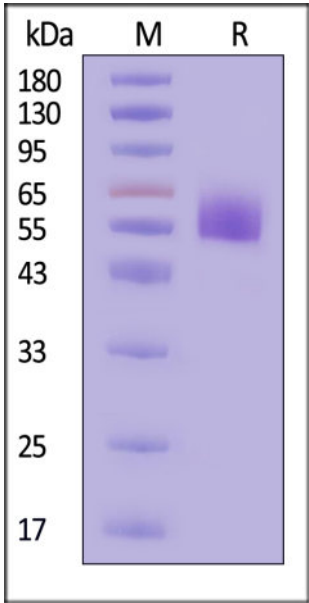
This product is stable after storage at:

- -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

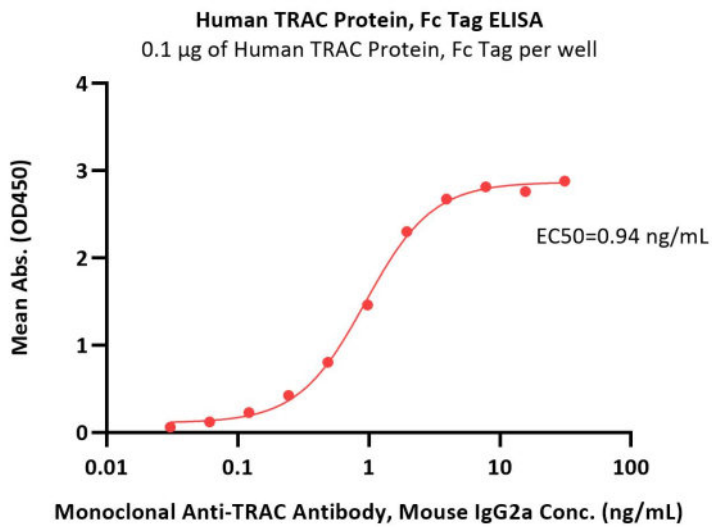
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Human TRAC Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA



Immobilized Human TRAC Protein, Fc Tag (Cat. No. TRC-H5257) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-TRAC Antibody, Mouse IgG2a with a linear range of 0.03-2 ng/mL (QC tested).

Background

The transmembrane protein, TCR, comprise of two disulphide-linked polypeptide chains: a α and β chain, a γ and δ chain. Each polypeptide chain consists of a variable and a constant region. TRAC is the constant region of T-cell receptor (TCR) alpha chain. TRAC is presented on the surface of T cell and recognized peptide-major histocompatibility (MH) (pMH) that are displayed by antigen presenting cells (APC). TRAC is participate in adaptive immune response and has been well-studied in T cell therapy.



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