



Synonym

TRAC

Source

Human TRAC, His Tag(TRC-H52H3) 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 Poly-his

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

The protein has a calculated MW of 14.8 kDa. The protein migrates as 25-35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL 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.

Storage

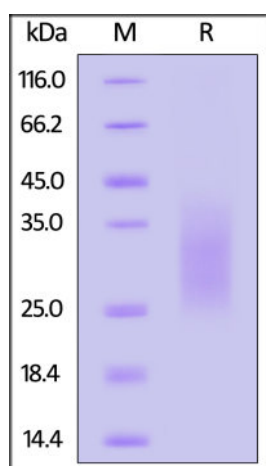
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

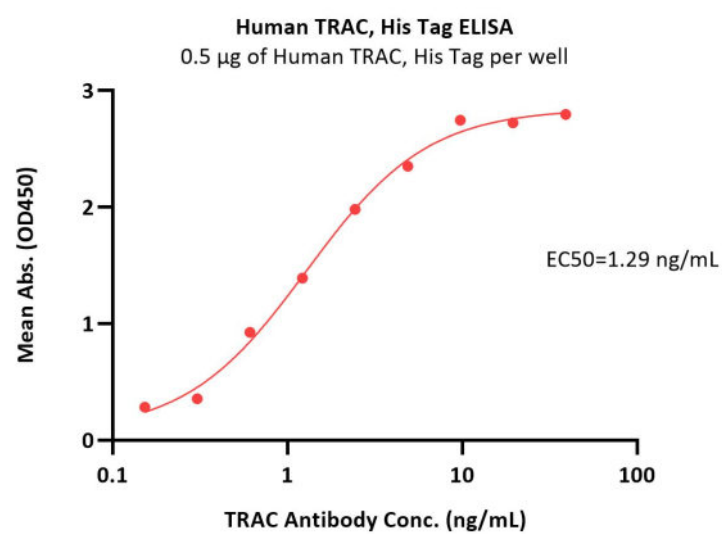


Human TRAC, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA

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Immobilized Human TRAC, His Tag (Cat. No. TRC-H52H3) at 5 µg/mL (100 µL/well) can bind TRAC Antibody with a linear range of 0.2-5 ng/mL (Routinely 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.

Clinical and Translational Updates

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