

Human TRBC1 Protein, His Tag (HPLC verified)

Catalog # TR1-H52H4



BIOSYSTEMS
Acro
Surprise Inside!

Synonym

T cell receptor beta constant 1, TRBC1

Source

Human TRBC1, His Tag(TR1-H52H4) is expressed from human 293 cells (HEK293). It contains AA Asp 1 - Ala 144 (Accession # [P01850-1](#)).

Molecular Characterization

TRBC1(Asp 1 - Ala 144)
P01850-1 Poly-his

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

The protein has a calculated MW of 18.2 kDa. The protein migrates as 20 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.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-HPLC.

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

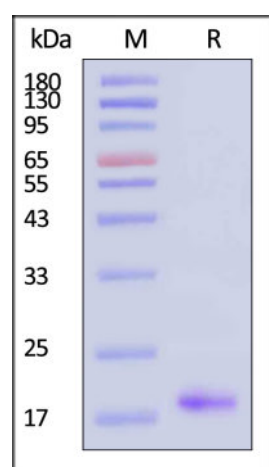
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

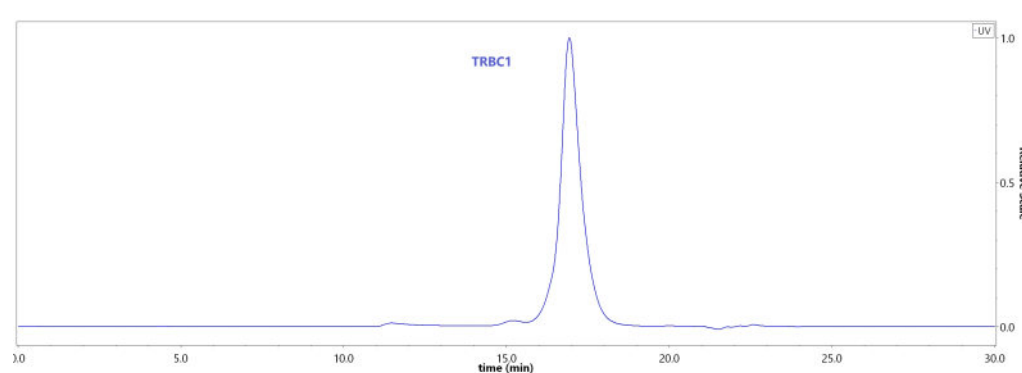
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human TRBC1, 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% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-HPLC



The purity of Human TRBC1, His Tag (Cat. No. TR1-H52H4) was greater than 90% as determined by SEC-HPLC.

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. TRBC1 is the constant region of T-cell receptor (TCR) beta chain. TRBC1 is presented on the surface of T cell and recognized

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peptide-major histocompatibility (MH) (pMH) that are displayed by antigen presenting cells (APC). TRBC1 is participate in an adaptive immune response and has been well-studied in T cell therapy.

Clinical and Translational Updates

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