Biotinylated Human TRBC2 Protein, His,Avitag™

Catalog # TR2-H82E9

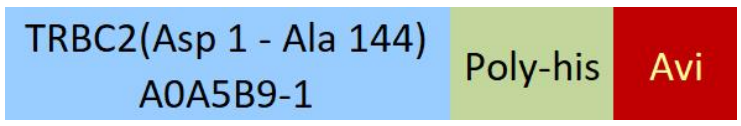
Synonym

T cell receptor beta constant 2,TRBC2

Source

Biotinylated Human TRBC2 Protein, His,Avitag(TR2-H82E9) is expressed from human 293 cells (HEK293). It contains AA Asp 1 - Ala 144 (Accession # A0A5B9-1).

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 20.0 kDa. The protein migrates as 21-22 kDa and 25 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

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

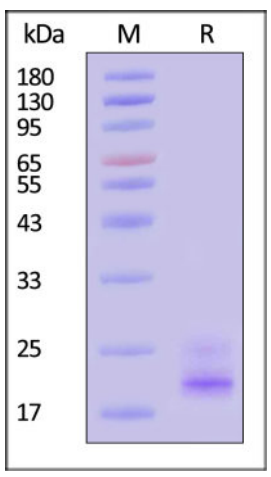
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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



Biotinylated Human TRBC2 Protein, His,Avitag 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).

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. TRBC2 is the constant region of T-cell receptor (TCR) beta chain. TRBC2 is presented on the surface of T cell and recognized

peptide-major histocompatibility (MH) (pMH) that are displayed by antigen presenting cells (APC). TRBC2 is participate in an adaptive immune response and has been well-studied in T cell therapy.