



### Synonym

TRDC

### Source

Human TRDC, His Tag(TRC-H52H4) is expressed from human 293 cells (HEK293). It contains AA Ser 1 - Val 129 (Accession # [B7Z8K6-1](#)).

### Molecular Characterization

TRDC( Ser 1 - Val 129)  
B7Z8K6-1 Poly-his

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

The protein has a calculated MW of 16.4 kDa. The protein migrates as 27-33 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.

### 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

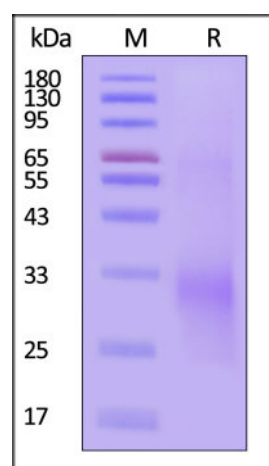
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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 TRDC, 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](#)).

### Background

The transmembrane protein, TCR, comprise of two disulphide-linked polypeptide chains: a  $\alpha$  and  $\beta$  chain, a  $\gamma$  and  $\delta$  chain. Each polypeptide chain consists of a variable and a constant region. TRDC is the constant region of T-cell receptor (TCR) delta chain. It recognizes the non-peptide antigens frequently expressed at the epithelial boundaries, which means the antigens activating  $\gamma\delta$  T cells are mostly MHC independent. A wide range of  $\gamma\delta$  T cell functions have been described in

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## Human TRDC Protein, His Tag

Catalog # TRC-H52H4



humans and mice, including skin and mucosal epithelial wound repair, induction of tolerance, cytotoxicity and the production of various cytokines that regulate immune responses.

### Clinical and Translational Updates

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