

Active Recombinant Full Length Human TRAC Protein, His Tagged

Cat. No. TRAC-1883H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human TRAC, His Tag is expressed from human 293 cells (HEK293). It contains AA Ile 1-Ser 115 (Accession # P01848-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Ile 1
Species	Human
Source	HEK293
ProteinLength	1-115 aa
Description	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.
Form	Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Human TRAC, His Tag at 5 μ g/mL (100 μ L/well) can bind TRAC Antibody with a linear range of 0.2-5 ng/mL.
Molecular Mass	The protein has a calculated MW of 14.8 kDa. The protein migrates as 25-35 kDa

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	under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 0.2 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	TRAC T cell receptor alpha constant [Homo sapiens (human)]
Official Symbol	TRAC
Synonyms	TRAC; T cell receptor alpha constant; IMD7; TCRA; TRCA;
Gene ID	28755
MIM	186880
UniProt ID	P01848

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