

DESCRIPTION

Source	Chinese Hamster Ovary cell line, CHO-derived human TRAIL R2/TNFRSF10B protein		
	Human TRAIL R2/TNFRSF10B (Ala54-Ser210) Accession # AAH01281.1	IEGRMD	Human IgG ₁ (Pro100-Lys330)
	N-terminus		C-terminus
N-terminal Sequence Analysis	Ala54		
Structure / Form	Disulfide-linked homodimer Labeled with Alexa Fluor® 488 via amines Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm		
Predicted Molecular Mass	44 kDa		

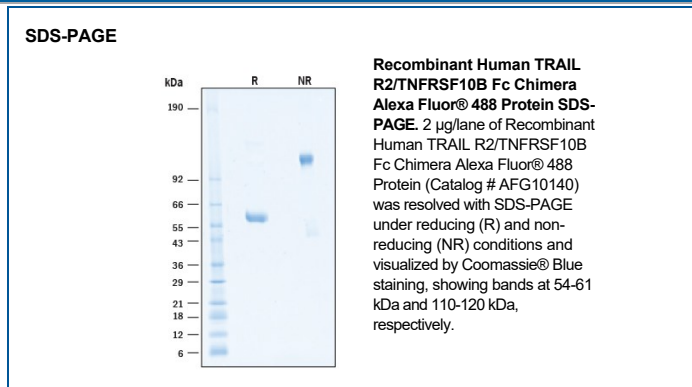
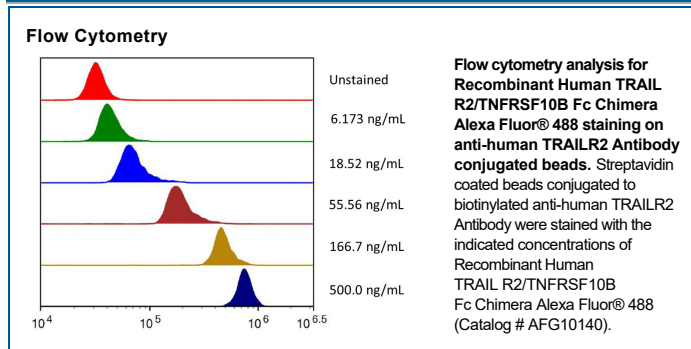
SPECIFICATIONS

SDS-PAGE	54-61 kDa, under reducing conditions.
Activity	Measured by flow cytometry for its ability to bind anti-human TRAILR2 Antibody conjugated beads. The concentration of Recombinant Human TRAIL R2/TNFRSF10B Fc Chimera Alexa Fluor® 488 (Catalog # AFG10140) that produces 50% of the binding response is 6.00-60.0 ng/mL.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Formulation	Supplied as a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

PREPARATION AND STORAGE

Shipping	The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 6 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after opening. • 3 months, -20 to -70 °C under sterile conditions after opening.

DATA



BACKGROUND

Human TRAIL R2, also called DR5 and TRICK 2 is a type 1, TNF R family, membrane protein which is a receptor for TRAIL (APO2 ligand) (1). In the new TNF superfamily nomenclature, TRAIL R2 is referred to as TNFRSF10B. TRAIL R2 cDNA encodes a 440 amino acid residue precursor protein containing extracellular cysteine-rich domains, a transmembrane domain and a cytoplasmic death domain. Among TNF receptor family proteins, TRAIL R2 is most closely related to TRAIL R1/DR4, sharing 55% amino acid sequence identity. There are no known rat or mouse homologs to TRAILR2. Binding of trimeric TRAIL to TRAIL R2 induces apoptosis (1, 2). The induction of apoptosis likely requires oligomerization of the receptor. The human TRAIL R2/Fc chimera neutralizes the ability of TRAIL to induce apoptosis (1, 2). Besides TRAIL R2, an additional TRAIL R1/DR4, which transduces apoptosis signaling, and two TRAIL decoy receptors, which antagonize TRAIL-induced apoptosis, have been reported (3).

References:

1. Chaudhary, P.M. *et al.* (1997) *Immunity* 7:821.
2. Walczak, H. *et al.* (1997) *EMBO J.* 16:5386.
3. Golstein, P. (1997) *Curr. Biol.* 7:R750.

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