

Rev02
 Update: Aug,08,2025
DATASHEET

TRAIL R2/DR5/TNFRSF10B hFc Chimera, Human

Cat. No.: Z05912

Product Introduction

Species	Human
Protein Construction	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> TRAIL R2/DR5/TNFRSF10B (Ile56-Glu182)_x000D_ Accession # O14763-1 </div> <div style="background-color: #76b82a; color: white; padding: 5px; text-align: center; margin-left: 10px;"> hFc </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px; font-size: small;"> N-term C-term </div>
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human Trail, No Tag at 2µg/ml (100µl/well) on the plate can bind TRAIL R2/DR5/TNFRSF10B hFc Chimera, Human. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	41.1 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 50-55 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in 50mM Tris, 100mM NaCl (pH 7.5).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

Background

Target Background : DR5, also called TRAIL R2, TRICK 2, TNFRSF10B, and MK is a type 1 TNF R superfamily, membrane protein which is a receptor for TRAIL (APO2 ligand). DR5 is a receptor for the cytotoxic ligand TNFSF10/TRAIL. The adapter molecule FADD recruits caspase-8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs caspase-8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis.

Synonyms : CD262; DR5; DR5TRICK2B; Fas-like protein; KILLER/DR5; TNFRSF10B; TRAIL R2; TRAIL receptor 2; TRAILR2; TRICK2; TRICK2A; TRICKB; ZTNFR9; KILLER

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

GenScript USA, Inc.

860 Centennial Ave. Piscataway, NJ 08854

Tel: 1-732-885-9188

Confidential and Privileged



Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28Yongxi Road, Jiangning District, Nanjing, Jiangsu, China

GenScript USA, Inc.

860 Centennial Ave. Piscataway, NJ 08854

Tel: 1-732-885-9188