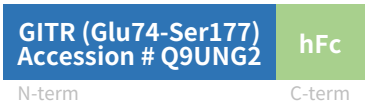
Rev07
Update: Aug,11,2025

DATASHEET

GITR Ligand Fc Chimera, Human

Cat. No.: Z03446

Product Introduction

Species	Human
Protein Construction	
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.1 EU/μg of protein by gel clotting method
Biological Activity	Immobilized GITR, hFc, Human (Cat. No.: Z03440) at 5.0 μg/ml (100 μl/well) can bind human biotinylated GITR Ligand, hFc, Human when detected by Streptavidin-HRP.
Expression System	HEK 293
Apparent Molecular Weight	~50 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS, 5% trehalose and mannitol.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH_2O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for 6 months at lower than -70°C. Upon reconstitution, the product should be stable for 1 week at 4°C or for 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Background

Target Background : GITR Ligand, also known as TNFSF18 and TL6, is an approximately 30 kDa type II transmembrane glycoprotein in the TNF superfamily (1). Human GITR Ligand consists of a 50 amino acid cytoplasmic domain, a 21 aa transsmembrane segment, and a 128 aa extracellular domain (ECD). Within the ECD, human GITR Ligand shares 56% and 60% aa sequence identity with mouse and rat GITR Ligand, respectively. TNFSF18 is expressed at high levels in the small intestine, ovary, testis, kidney and endothelial cells. GITRL/TNFSF18 is up-regulated after stimulation by bacterial lipopolysaccharides (LPS). TNFSF18 Can function as costimulator and lower the threshold for T-cell activation and T-cell proliferation. TNFSF18 / GITR Ligand is important for interactions between activated T-lymphocytes and endothelial cells.Recombinant Human GITR Ligand Fc Chimera produced in HEK293 cells is a polypeptide chain containing 359 amino acids with the C-termimal human IgG1 Fc fragment. A fully biologically active molecule, rhGITRL has a molecular mass of 50 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Synonyms : TNFSF18; AITRL; TL6; hGITRL; GITR Ligand

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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