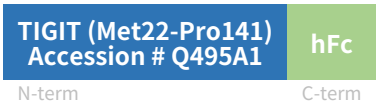
Rev04
Update: Mar,01,2022

DATASHEET

TIGIT Fc Chimera, Human

Cat. No.: Z03439

Product Introduction

Species	Human
Protein Construction	
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	Immobilized PVR/CD155, hFc, Human (Cat. No.: Z03435) at 5.0 μg/ml (100 μl/well) can bind biotinylated TIGIT, hFc, Human with a linear range of 6.1-48.83 ng/ml when detected by Streptavidin-HRP.
Expression System	HEK 293
Apparent Molecular Weight	50~55 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 up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 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.

Examples

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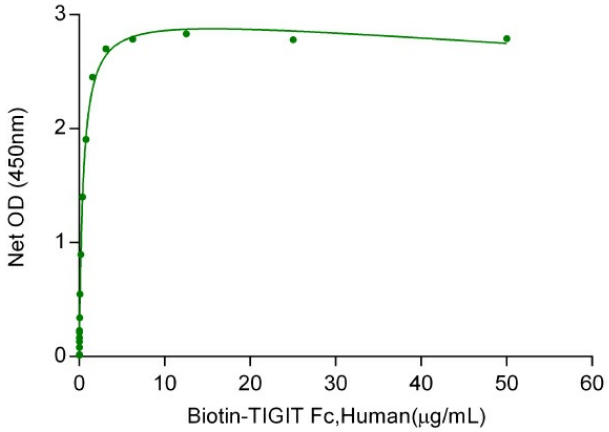

Immobilized CD155 Fc, human (Cat.No.Z03435) at 5 μg/mL (100μL/well) can bind Biotin-TIGIT Fc, Human with a linear range of 6.1-48.8ng/mL.

Background

Target Background : T-cell immunoreceptor with Ig and ITIM domains (TIGIT) is also known as V-set and immunoglobulin domain-containing protein 9 (VSIG9), V-set and transmembrane domain-containing protein 3 (VSTM3). It belongs to single-pass type I membrane protein containing an immunoglobulin variable domain, a transmembrane domain and an immunoreceptor tyrosine-based inhibitory motif (ITIM). It binds with high affinity to the poliovirus receptor (PVR) which causes increased secretion of IL10 and decreased secretion of IL12B and suppresses T-cell activation by promoting the generation of mature immunoregulatory dendritic cells. TIGIT is expressed at low levels on peripheral memory and regulatory $CD4^+$ T-cells and NK cells and is up-regulated following activation of these cells.

Synonyms : TIGIT; VSIG9; VSTM3; WUCAM; T Cell Immunoreceptor with Ig and ITIM Domains

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

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