

AG-40B-0162

26-Feb-2016

TIGIT (human):Fc (human) (rec.)

[T Cell Immunoreceptor with Ig and ITIM Domains; V-set and Immunoglobulin Domain-containing Protein 9; V-set and Transmembrane Domain-containing Protein 3; Vstm3; VSIG9; WUCAM]

AG-40B-0162-C050	50 µg
Source/Host	HEK 293 cells
MW	~40-45kDa (SDS-PAGE)
Sequence	The extracellular domain of human TIGIT (aa 22-138) is fused at the C-terminus to the Fc portion of human IgG1.

Handling / Storage

Shipping	BLUE ICE
Short Term Storage	+4°C
Long Term Storage	-20°C

After reconstitution, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles. PBS containing at least 0.1% BSA should be used for further dilutions.

Use / Stability

Stable for at least 6 months after receipt when stored at -20°C.

MSDS available at www.adipogen.com or upon request.

Product Specifications

Purity	≥95% (SDS-PAGE)
Formulation	Lyophilized. Contains PBS.
Concentration	1mg/ml after reconstitution.
Reconstitution	Reconstitute with 50µl sterile water.
Endotoxin Content	<0.01EU/µg purified protein (LAL test; Lonza).

Other Product Data

UniProt link Q495A1:[TIGIT \(human\)](#)

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. **MATERIAL SAFETY DATA:** Review the complete Material Safety Data Sheet before use.

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Product Description

TIGIT (T cell immunoreceptor with Ig and ITIM domains) is a novel member of the immunoglobulin super family (IgSF). TIGIT and CD226 bind the same ligands, the two nectin-family members poliovirus receptor (PVR) and poliovirus receptor-related 2 (CD112) and compete for each other. TIGIT inhibits while CD226 activates the signaling through PVR and CD112. TIGIT and CD226 directly interact at the cell surface and this interaction impairs CD226 homodimerization and function. TIGIT is absent on naive T cells, but is expressed on activated Tregs and memory T cells, and on NK cells and NKT cells. TIGIT negatively regulates T cell activation and blockade of TIGIT exacerbates several immune diseases. TIGIT also activates the PVR receptor on dendritic cells (DCs). Addition of TIGIT (human):Fc (human) to DCs triggers phosphorylation of PVR and elicits downstream signaling, which then inhibits T cell responses by producing IL-10. TIGIT also negatively regulates NK cell cytotoxicity and cytokine production. TIGIT is directly regulated by FoxP3 and promotes inducible Treg differentiation.

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