

## TIGIT Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P78216
Synonyms:	TIGIT; VSIG9; VSTM3; WUCAM
Species:	Human
Source:	HEK293
Accession:	Q495A1 (M22-P141)
Gene ID:	201633
Molecular Weight:	20-25 kDa

### PROPERTIES

Biological Activity	Immobilized Biotinylated Human TIGIT, His Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human CD155, hFc Tag with the EC <sub>50</sub> of 12.5ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

#### Background

The TIGIT protein plays a pivotal role in immune regulation, exhibiting high-affinity binding to the poliovirus receptor (PVR). This interaction leads to increased secretion of IL10 and decreased secretion of IL12B, contributing to an immunosuppressive environment. TIGIT further exerts its immunomodulatory effect by suppressing T-cell activation and promoting the generation of mature immunoregulatory dendritic cells. Structurally, TIGIT forms a homodimer in cis, binding with high affinity to PVR, thereby creating a heterotetrameric assembly comprising two TIGIT and two PVR molecules. Additionally, TIGIT demonstrates lower-affinity binding to NECTIN2 and NECTIN3, underscoring its capacity for diverse molecular interactions. The multifaceted functions and binding affinities of TIGIT highlight its crucial role in immune regulation and its potential as a therapeutic target in modulating immune responses.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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