

Datasheet for ABIN7275731
TIGIT Protein (AA 26-143) (His tag)

3 Images

[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	TIGIT
Protein Characteristics:	AA 26-143
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TIGIT protein is labelled with His tag.

Product Details

Purpose:	Mouse TIGIT Protein
Sequence:	Gly26-Thr143
Characteristics:	Recombinant Mouse TIGIT Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gly26-Thr143.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 4.00 µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	TIGIT
Alternative Name:	TIGIT (TIGIT Products)
Background:	TIGIT, also called Vstm3, Vsig9, and WUCAM, is a transmembrane protein in the CD28 family of the Ig superfamily proteins.IGIT 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.
Molecular Weight:	14 kDa. Due to glycosylation, the protein migrates to 25-30 kDa based on Tris-Bis PAGE result.
NCBI Accession:	NP_001139797
Pathways:	Cancer Immune Checkpoints

Application Details

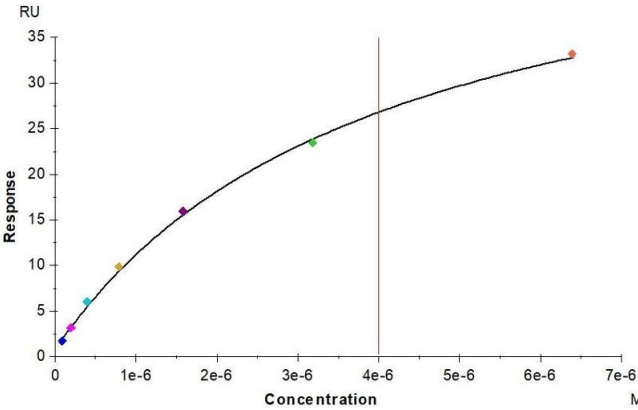
Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

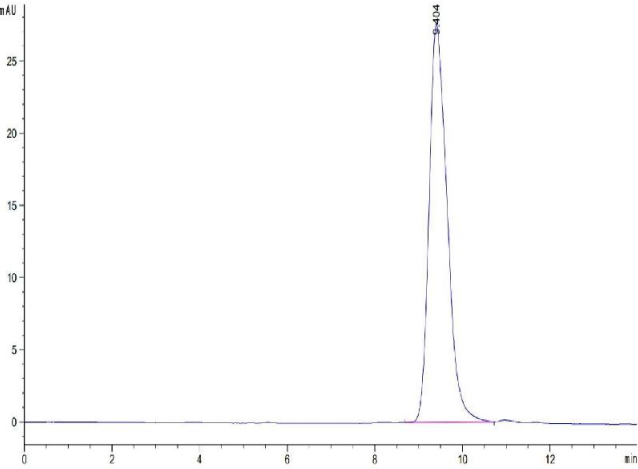
Surface Plasmon Resonance

Image 1. Mouse CD155, His Tag immobilized on CM5 Chip can bind Mouse TIGIT, His Tag with an affinity constant of 4.00 μ M as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Mouse TIGIT is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 3. Mouse TIGIT on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

