

## Recombinant Human TIGIT (His Tag)

### 产品信息

产品名称	产品编号	规格
Recombinant Human TIGIT (His Tag)	93561ES20	20 µg
	93561ES60	100 µg
	93561ES76	500 µg
	93561ES80	1 mg

### 产品描述

TIGIT, also called Vstm3, Vsig9 and WUCAM is a 30-34 kDa type I transmembrane protein that is a member of the CD28 family within the Ig superfamily of proteins. Within the ECD, human TIGIT shares only 65% and 67% aa sequence identity with mouse and rat TIGIT. It binds to CD155/PVR/Necl-5 and Nectin-2/CD112/PVRL2 that appear on dendritic cells (DC) and endothelium. Binding of TIGIT by DC induces IL-10 release and inhibits IL-12 production. Ligation of TIGIT on T cells down-regulates TCR-mediated activation and subsequent proliferation, while in NK cell, TIGIT ligation blocks NK cell cytotoxicity. In particular, TIGIT binding to CD155 can antagonize the effects of DNAM-1. Soluble TIGIT is able to compete with DNAM-1 for CD155 binding and attenuates T cell responses, while mice lacking TIGIT show increased T cell responses and susceptibility to autoimmune challenges.

### 产品性质

别名 (Synonyms)	TIGIT, VSIG9, VSTM3, WUCAM
Uniprot No.	Q495A1-1
表达区间及表达系统 (Source)	HEK293 Cells-derived Human TIGIT Protein, Met22-Pro141 with His tag at the C-terminal
分子量(Molecular Weight)	Approximately 14 kDa. Due to glycosylation, the protein migrates to 20-25 kDa based on Tris-Bis PAGE result.
外观(Physical Appearance)	Sterile Filtered White lyophilized (freeze-dried) powder.
纯度 (Purity)	> 95% as determined by SDS-PAGE and HPLC
活性 (Activity)	<b>1. ELISA Data:</b> Immobilized Human TIGIT, His Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-TIGIT Antibody, hFc Tag with the EC <sub>50</sub> of 18 ng/mL determined by ELISA. <b>2. SPR Data:</b> Human CD155, hFc Tag captured on Protein A chip, can bind Human TIGIT, His Tag with an affinity constant of 0.17 µM as determined in a SPR assay (Biacore T200).
内毒素 (Endotoxin)	< 1.0 EU per 1µg of the protein by the LAL method.
制剂 (Formulation)	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
复溶 (Reconstitution)	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

### 运输与保存方法

冰袋运输。-20°C至-80°C保存，一年有效期。

复溶后，-20 至 -80°C，在未开封状态下保存 3-6 个月。复溶后，2-8°C 保存 2-7 天。

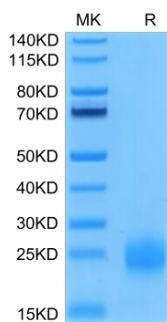
建议第一次使用时分装冻存，避免反复冻融。

## 注意事项

1. 避免反复冻融。
2. 为了您的安全和健康，请穿实验服并戴一次性手套操作。
3. 本产品仅作科研用途！

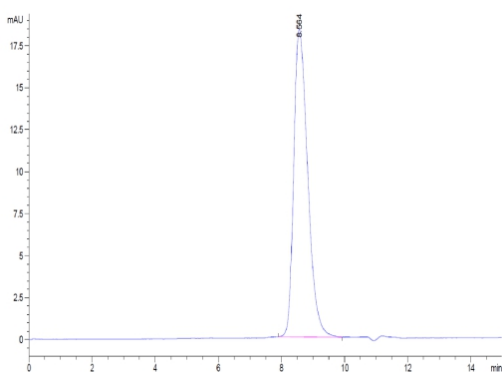
## 产品数据

### Tris-Bis PAGE



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

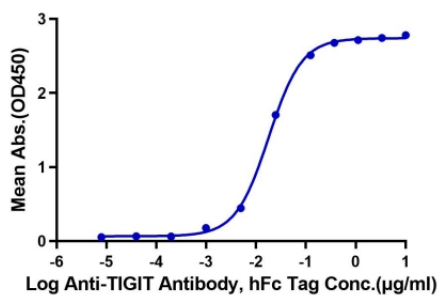
### SEC-HPLC



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

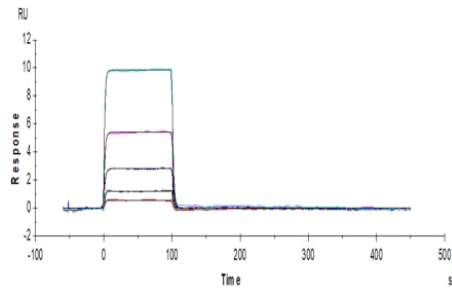
### ELISA Data

Human TIGIT, His Tag ELISA  
0.05 $\mu$ g Human TIGIT, His Tag Per Well



Immobilized Human TIGIT, His Tag at 0.5  $\mu$ g/mL (100  $\mu$ L/well) on the plate. Dose response curve for Anti-TIGIT Antibody, hFc Tag with the  $EC_{50}$  of 18 ng/mL determined by ELISA.

## SPR Data



Human CD155, hFc Tag captured on Protein A chip, can bind Human TIGIT, His Tag with an affinity constant of  $0.17 \mu\text{M}$  as determined in a SPR assay (Biacore T200).