

## Product datasheet for **TP727841**

### Cynomolgus Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant Cynomolgus TIGIT/VSIG9/VSTM3 (C-FC)
<b>Species:</b>	Cynomolgus
<b>Expression cDNA Clone or AA Sequence:</b>	Met89-Pro209
<b>Tag:</b>	C-Fc
<b>Buffer:</b>	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
<b>Note:</b>	Recombinant Cynomolgus T cell Immunoreceptor with Ig and ITIM domains is produced by our Mammalian expression system and the target gene encoding Met89-Pro209 is expressed with a Fc tag at the C-terminus.
<b>Stability:</b>	12 months from date of despatch
<b>Summary:</b>	T cell immunoreceptor with Ig and ITIM domains (TIGIT), also called VSIG9 and Vstm3, is a member of the CD28 family within the Ig superfamily of proteins. TIGIT contains an immunoglobulin variable domain, a transmembrane domain and an immunoreceptor tyrosine-based inhibitory motif (ITIM), and is expressed on regulatory, memory, activated T cells and NK cells. TIGIT binds to CD155(PVR) that appear on dendritic cells (DC), macrophages and endothelium with high affinity, and CD112(PVRL2) with lower affinity, but not CD113 (PVRL3). TIGIT-Fc fusion protein could interact with PVR on DC and enhance the secretion of IL-10, but inhibit the macrophage activation. Mice lacking TIGIT show increased T cell responses and susceptibility to autoimmune challenges, while knockdown of TIGIT with siRNA in human memory T cells did not affect T cell responses.



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