

## Product datasheet for **TP727654**

### Vsir Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse Platelet Receptor Gi24/VISTA/B7-H5 (C-6His)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Phe33-Ala191
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Mouse Platelet receptor Gi24 is produced by our Mammalian expression system and the target gene encoding Phe33-Ala191 is expressed with a 6His tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	74048
UniProt ID:	<a href="#">Q9D659</a>
Summary:	Mouse Platelet receptor Gi24(VISTA) is a transmembrane glycoprotein with homology to B7like immune costimulatory molecules. Mature mouse Gi24 contains a 159 amino acid (aa) extracellular domain (ECD) with one V-type Ig-like domain, a 21 aa transmembrane segment, and a 97 aa cytoplasmic domain. VISTA promotes both MT1-MMP expression and the MT1-MMP mediated activation of MMP-2. It supports the differentiation of embryonic stem cells (ESC) and enhances BMP-4 induced signaling in ESC, but it is also down-regulated following BMP-4 exposure. It binds to BMP-4 directly and also associates with the type I BMP receptor Activin RIB/ALK-4. It is expressed on the surface of na <sup>+</sup> ve CD4 <sup>+</sup> T cells and regulatory T cells. It is up-regulated in vivo on activated monocytes and dendritic cells. VISTA inhibits CD4 <sup>+</sup> and CD8 <sup>+</sup> T cell proliferation and their production of IL-2 and IFN- $\gamma$ . Its expression on tumor cells attenuates the antitumor immune response and enables more rapid tumor progression.



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