

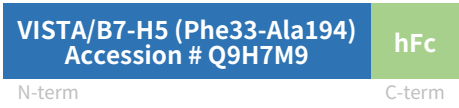
Rev04  
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**DATASHEET**

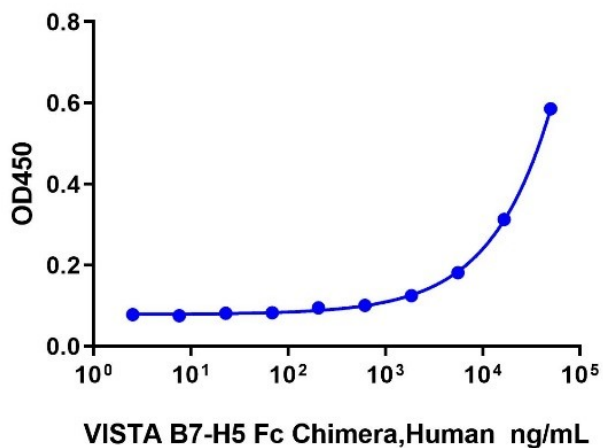
# VISTA/B7-H5 Fc Chimera, Human

Cat. No.: Z03442

## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	 <p>VISTA/B7-H5 (Phe33-Ala194) Accession # Q9H7M9</p> <p>N-term</p> <p>hFc</p> <p>C-term</p>
<b>Purity</b>	> 90% as analyzed by SDS-PAGE
<b>Endotoxin Level</b>	< 1 EU/μg of protein by gel clotting method
<b>Biological Activity</b>	Immobilized Human IGSF11 at 2.0 μg/ml (100 μl/well) can bind VISTA/B7-H5, hFc, Human with a linear range of 1.85-50.0 μg/ml when detected by SA-HRP.
<b>Expression System</b>	HEK 293
<b>Apparent Molecular Weight</b>	~65.4 kDa, on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution in PBS.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O or PBS up to 100 μg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## Examples



Immobilized Recombinant Human IGSF11 at 2  $\mu\text{g/ml}$  (100  $\mu\text{l/well}$ ) can bind VISTA/B7-H5 Fc Chimera, Human with a linear range of 1.85-50  $\mu\text{g/ml}$  when detected by SA-HRP. Background was subtracted from data points before curve fitting.

## Background

**Target Background :** V-domain Ig suppressor of T cell activation (VISTA), also known as B7-H5, is a type I transmembrane protein that functions as an immune checkpoint. VISTA belongs to the immunoglobulin superfamily and has one IgV domain. It is primarily expressed in white blood cells and its transcription is partially controlled by p53. VISTA can act as both a ligand and a receptor on T cells to inhibit T cell effector function and maintain peripheral tolerance. VISTA may also promote differentiation of embryonic stem cells by inhibiting BMP4 signaling (By similarity) and may stimulate MMP14-mediated MMP2 activation.

**Synonyms :** VSIR; B7-H5; B7H5; GI24; PP2135; SISP1; DD1alpha; VISTA; C10orf54; chromosome 10 open reading frame 54; PD-1H; V-set immunoregulatory receptor; Dies1

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**