

## VISTA Protein, Cynomolgus, Recombinant (hFc)

### General Information

Synonyms:	C9H10orf54;V-set immunoregulatory receptor
Protein Construction:	A DNA sequence encoding the cynomolgus B7H5 (XP_005565644.1) (Met1-Ala194) was expressed with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Phe 33
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	F7F6S6
Molecular Weight:	44.9 kDa (predicted)

### QC Testing

Biological Activity:	Immobilized human IGSF11-His at 2 µg/mL (100 µL/well) can bind Cynomolgus B7H5-hFc, the EC50 of Cynomolgus B7H5-hFc is 0.4-1.3 µg/mL.
Purity:	> 90 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

**Reconstitution:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

**Stability & Storage:**

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

**Shipping:**

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

VSIR (V-Set Immunoregulatory Receptor, also known as VISTA) is a Protein Coding gene. VISTA is an immunoregulatory receptor that inhibits the T-cell response. It may promote differentiation of embryonic stem cells, by inhibiting BMP4 signaling. VSIR, or V-set immunoregulatory receptor, could be involved in the pathogenesis of chronic rhinosinusitis with nasal polyps. V-domain Immunoglobulin Suppressor of T cell Activation (VISTA) is an inhibitory immune-checkpoint molecule that suppresses CD4+ and CD8+ T cell activation

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when expressed on antigen-presenting cells. VSIR is broadly expressed in the spleen, bone marrow, and other tissues. Diseases associated with VSIR include Ichthyosis, Congenital, Autosomal Recessive 6, and Monckeberg Arteriosclerosis. An important paralog of this gene is VSIG8.

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