

## VISTA Protein, Human, Recombinant (His & Avi), Biotinylated

### General Information

Synonyms:	GI24;DD1 alpha;PP2135;PD-1H;V-set immunoregulatory receptor;VISTA;DD1 $\alpha$ ;B7-H5;B7H5;C10orf54;SISP1
Protein Construction:	Phe33-Ala194
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9H7M9
Molecular Weight:	21.04 kDa (predicted); 40-60 kDa (reducing conditions, due to glycosylation)

### QC Testing

Biological Activity:	Immobilized Biotinylated Human B7-H5, His Tag at 1 $\mu\text{g/ml}$ (100 $\mu\text{l/well}$ ) on the streptavidin precoated plate (5 $\mu\text{g/ml}$ ). Dose response curve for Anti-B7-H5 Antibody, hFc Tag with the EC50 of 3.2 ng/ml determined by ELISA. (QC Test)
Purity:	> 95% as determined by Bis-Tris PAGE, > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ $\mu\text{g}$ of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu\text{g/ml}$ . Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at  $-80^{\circ}\text{C}$ . For reconstituted protein solutions, the solution can be stored at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  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

## A DRUG SCREENING EXPERT

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Activation (VISTA) is an inhibitory immune-checkpoint molecule that suppresses CD4+ and CD8+ T cell activation 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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