

## 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:	A DNA sequence encoding the human Vsir (AAH20568.1) (Met1-Ala194) was expressed with a C-terminal polyhistidine tag followed by an AVI tag. The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed. Predicted N terminal: Phe 33
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAH20568.1
Molecular Weight:	21.41 kDa (predicted); 40.97 kDa (reducing conditions)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	$\geq 95\%$ as determined by SDS-PAGE. $\geq 95\%$ as determined by SEC-HPLC.
Endotoxin:	$< 1.0$ EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m 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 $-20^{\circ}\text{C}$ 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.
Shipping:	In general, Lyophilized powders are shipping with blue 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 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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