

## VISTA/B7-H5 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P70962
Synonyms:	Platelet receptor Gi24; Stress-induced secreted protein-1; Sisp-1; C10orf54; SISP1
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A2K5UV12 (F33-A194)
Gene ID:	102116468
Molecular Weight:	30-50 kDa

### PROPERTIES

AA Sequence	<p>           F K V A T L Y S L Y    V C P E G Q N V T L    T C R V F G P V D K    G H D V T F Y K T W            Y R S S R G E V Q T    C S E R R P I R N L    T F Q D L H L H H G    G H Q A A N T S H D            L A Q R H G L E S A    S D H H G N F S I T    M R N L T L L D S G    L Y C C L V V E I R            H H H S E H R V H G    A M E L Q V Q T G K    D A P S S C V A Y P    S S S Q E S E N I T            A A         </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>V-domain immunoglobulin suppressor of T cell activation (VISTA) is a B7 family member that maintains T cell and myeloid quiescence and is a promising target for combination cancer immunotherapy. VISTA, a type I transmembrane protein, is primarily expressed in hematopoietic cells. VISTA activity reprograms macrophages towards reduced production of proinflammatory cytokines and increased production of interleukin (IL)-10 and other anti-inflammatory mediators. VISTA not only acts as a ligand expressed on antigenpresenting cells, but also functions as a receptor on T cells. VISTA is an immune checkpoint receptor expressed on tumor-infiltrating T lymphocytes (TILs) and myeloid cells, leading to suppression of T cell activation, proliferation, and cytokine production, thereby promoting immune evasion and survival in a variety of</p>
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human cancers, such as prostate cancer, non-small cell lung cancer (NSCLC), and colorectal carcinoma. VISTA is overexpressed in tumor tissues and functions as a co-stimulatory molecule<sup>[1][2][3]</sup>.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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