

VISTA/B7-H5 Protein, Rat (HEK293, Fc)

Cat. No.:	HY-P73546
Synonyms:	Platelet receptor Gi24; Stress-induced secreted protein-1; Sisp-1; C10orf54; SISP1
Species:	Rat
Source:	HEK293
Accession:	G3V9P3 (I33-A191)
Gene ID:	690899
Molecular Weight:	Approximately 60-75 kDa

PROPERTIES

AA Sequence	<p>I K V T T P Y S L Y V C P E G Q N V T L T C R I L D S V S K G H D A N F L K T W</p> <p>F L S S R G E V Q V C K E H R P I R N F I S H H Q H R S H P A V N A S H D Q P</p> <p>Q K H G L E I A Y D N H G N F S I T L H N V T L S D S G L Y C C L V I E V K H H</p> <p>H P E R R L Y G Y M E L Q V Q T G K G S A S T C T A Y P P N E Q D S D S I T A</p>
Biological Activity	Measured by its ability to inhibit anti-CD3 antibody induced IL-2 secretion in Jurkat human T lymphocytes. The ED ₅₀ for this effect is 1.173 µg/mL in the presence of 5 µg/mL anti-CD3, corresponding to a specific activity is 852.515 U/mg.
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 ₂ 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	VISTA/B7-H5 protein, functioning as an immunoregulatory receptor, plays a pivotal role in inhibiting the T-cell response, as established in various studies. Additionally, it may contribute to the differentiation of embryonic stem cells by inhibiting BMP4 signaling, showcasing its potential role in developmental processes. Moreover, VISTA/B7-H5 has been implicated in stimulating MMP14-mediated MMP2 activation, suggesting a regulatory function in matrix metalloproteinase-mediated processes. This multifaceted role underscores the significance of VISTA/B7-H5 in immune regulation, embryonic
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development, and extracellular matrix dynamics, revealing its potential impact across diverse biological contexts.

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

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