

Product Data Sheet

Inhibitors • Screening Libraries • Proteins

HHLA2 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P76970
Synonyms:	HERV-H LTR-associating protein 2; Human endogenous retrovirus-H long terminal repeat- associating protein 2
Species:	Human
Source:	HEK293
Accession:	Q9UM44 (M1-N344)
Gene ID:	11148
Molecular Weight:	Approximately 63.7 kDa.

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PROPERTIES	
Biological Activity	 Measured by its binding ability in a functional ELISA. Immobilized human TMIGD2 at 10 μg/mL (100 μL/well) can bind human HHLA2-Fc, the EC₅₀ of human HHLA2-Fc is 0.3-3 μ g/mL. Loaded Recombinant Human KIR3DL3 Protein, His Tag on His1K Biosensor, can bind Recombinant Human B7-H7/HHLA2 Protein, hFc Tag with an affinity constant of 51.8 nM as determined in BLI assay (Sartorius Octet RED384)
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH_2O.
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 The HHLA2 protein, a pivotal player in immune regulation, engages in a significant interaction with TMIGD2 to provide
costimulation to T-cells during T-cell receptor (TCR)-mediated activation. This interaction, in turn, amplifies T-cell
proliferation and cytokine production through an AKT-dependent signaling cascade. The collaboration between HHLA2 and
TMIGD2 underscores the intricate molecular mechanisms involved in enhancing T-cell responses, shedding light on its role
in immune modulation.

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

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