

PVRIG Protein, Human (HEK293, Fc)

Cat. No.:	HY-P71247
Synonyms:	C7orf15; CD112R; PVRIG; transmembrane protein PVRIG; C7orf15MGC138295; MGC104322; MGC138297; MGC2463
Species:	Human
Source:	HEK293
Accession:	Q6DKI7 (T41-D171)
Gene ID:	79037
Molecular Weight:	45-50 kDa

PROPERTIES

AA Sequence	<p>T P E V W V Q V R M E A T E L S S F T I R C G F L G S G S I S L V T V S W G G P</p> <p>N G A G G T T L A V L H P E R G I R Q W A P A R Q A R W E T Q S S I S L I L E G</p> <p>S G A S S P C A N T T F C C K F A S F P E G S W E A C G S L P P S S D P G L S A</p> <p>P P T P A P I L R A D</p>
Biological Activity	10 µg/mL (100 µL/well) of immobilized Human PVRIG-Fc can bind Human Nectin-2-His with an ED50 value of 2.914 µg/mL, corresponding to an affinity constant of 168.5 nM.
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	<p>PVRIG (PVR-related immunoglobulin domain-containing) protein is identified as a cell surface receptor for NECTIN2, functioning as a potential coinhibitory receptor that dampens T-cell receptor-mediated signals. Upon interacting with NECTIN2, PVRIG exerts its inhibitory effect by suppressing T-cell proliferation. Notably, PVRIG engages in a competitive binding scenario with CD226 for NECTIN2, implying a regulatory role in immune responses where it competes with an activating receptor. This competitive interaction with CD226 underscores PVRIG's involvement in modulating the delicate</p>
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balance between activating and inhibitory signals during T-cell activation.

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

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