

PILR-alpha Protein, Human (HEK293)

Cat. No.:	HY-P77140
Synonyms:	Paired immunoglobulin-like type 2 receptor alpha; Cell surface receptor FDF03; PILRA
Species:	Human
Source:	HEK293
Accession:	AAH17812 (Q20-D226)
Gene ID:	29992
Molecular Weight:	Approximately 33 kDa

PROPERTIES

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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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	Paired immunoglobulin-like type 2 receptor alpha (PILRA) is a immunoreceptor tyrosine-based inhibitory motif (ITIM)-bearing member of the paired receptor which consist of highly related activating and inhibitory receptors and are widely involved in the regulation of the immune system. PILRA is thought to act as a cellular signaling inhibitory receptor by recruiting cytoplasmic phosphatases like PTPN6/SHP-1 and PTPN11/SHP-2 via their SH2 domains that block signal transduction through dephosphorylation of signaling molecules, while SHP-1-mediated dephosphorylation of protein tyrosine residues is central to the regulation of several cell signaling pathways. PLPRA is a receptor for PIANP and also acts as an entry co-receptor for herpes simplex virus 1 ^{[1][2][3]} .
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Caution: Product has not been fully validated for medical applications. For research use only.

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