

## PILR-alpha Protein, Human (178a.a, HEK293, Fc)

Cat. No.:	HY-P78022
Synonyms:	PILRA; FDF03; PILRalpha; PILR-alpha
Species:	Human
Source:	HEK293
Accession:	Q9UKJ1 (Q20-A197)
Gene ID:	29992
Molecular Weight:	60-70 kDa

### PROPERTIES

AA Sequence	<p>           Q P S G S T G S G P    S Y L Y G V T Q P K    H L S A S M G G S V    E I P F S F Y Y P W            E L A T A P D V R I    S W R R G H F H R Q    S F Y S T R P P S I    H K D Y V N R L F L            N W T E G Q K S G F    L R I S N L Q K Q D    Q S V Y F C R V E L    D T R S S G R Q Q W            Q S I E G T K L S I    T Q A V T T T T Q R    P S S M T T T W R L    S S T T T T T G L R            V T Q G K R R S D S    W H I S L E T A         </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 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>           PILR-alpha, belonging to the paired receptors family, functions as a cellular signaling inhibitory receptor with a role in immune system regulation. This receptor is presumed to exert its inhibitory effects by recruiting cytoplasmic phosphatases such as PTPN6/SHP-1 and PTPN11/SHP-2 through their SH2 domains, leading to signal transduction blockage via dephosphorylation of key signaling molecules. Additionally, PILR-alpha serves as a receptor for PIANP and, under conditions of microbial infection, acts as an entry co-receptor for herpes simplex virus 1. Its engagement in these molecular interactions highlights its versatile involvement in immune modulation and cellular responses to pathogens.         </p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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