

SIGIRR Protein, Human (HEK293, His)

Cat. No.:	HY-P76065
Synonyms:	Single Ig IL-1-related receptor; Toll/interleukin-1 receptor 8; TIR8
Species:	Human
Source:	HEK293
Accession:	Q6IA17 (M1-H118)
Gene ID:	59307
Molecular Weight:	The protein migrates as approximately 22-35 kDa under reducing SDS-PAGE due to glycosylation.

PROPERTIES

AA Sequence	<p>M P G V C D R A P D</p> <p>F L S P S E D Q V L R P A L G S S V A L N C T A W V V S G P H</p> <p>C S L P S V Q W L K D G L P L G I G G H Y S L H E Y S W V K A N L S E V L V S S</p> <p>V L G V N V T S T E V Y G A F T C S I Q N I S F S S F T L Q R A G P T S H</p>
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	<p>The SIGIRR protein acts as a negative regulator of the Toll-like and IL-1R receptor signaling pathways. It functions by inhibiting the recruitment of signaling components to the TLR4 receptor, likely through an interaction between their TIR domains. Furthermore, SIGIRR interferes with the heterodimerization of IL1R1 and IL1RAP through its extracellular domain. It interacts with various proteins including IL1R1, IRAK1, TLR4, TLR5, TLR9, TRAF6, and PALM3. Upon IL-1 stimulation, SIGIRR can be found in a complex consisting of IL1R1, SIGIRR, MYD88, IRAK1, and TRAF6. Similarly, upon stimulation with LPC, SIGIRR is present in a complex comprising TLR4, SIGIRR, MYD88, IRAK1, and TRAF6.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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