SIGIRR Protein, Mouse (HEK293, His)

Cat. No.:	HY-P74547
Synonyms:	Single Ig IL-1-related receptor; Toll/interleukin-1 receptor 8; TIR8
Species:	Mouse
Source:	HEK293
Accession:	Q9JLZ8 (M1-H117)
Gene ID:	24058
Molecular Weight:	Approximately 20-40 kDa due to the glycosylation

PROPERTIES

AA Sequence	M A G V C D M A P N F L S P S E D Q A L G L A L G R E V A L N C T A W V F S R P Q C P Q P S V Q W L K D G L A L G N G S H F S L H E D F W V S A N F S E I V S S V L V L N L T N A E D Y G T F T C S V W N V S S H S F T L W R A G P A G H
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	SIGIRR Protein serves as a negative regulator within the Toll-like and IL-1R receptor signaling pathways, exerting its inhibitory effects by attenuating the recruitment of receptor-proximal signaling components to the TLR4 receptor, possibly through a TIR-TIR domain interaction with TLR4. Additionally, through its extracellular domain, SIGIRR interferes with the heterodimerization of Il1R1 and IL1RAP. The protein interacts with IL1R1, IRAK1, TLR4, TLR5, TLR9, and TRAF6, and upon IL-1 stimulation, it is found in a complex with IL1R1, SIGIRR, MYD88, IRAK1, and TRAF6. Moreover, upon stimulation with LPC, SIGIRR is part of a complex that includes TLR4, SIG1IR, MYD88, IRAK1, and TRAF6. It also interacts with PALM3, suggesting a multifaceted role in modulating inflammatory signaling pathways.

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

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