

CMKLR1 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702250
Synonyms:	Chemerin-like receptor 1; Chemokine-like receptor 1; G-protein coupled receptor ChemR23; G-protein coupled receptor DEZ
Species:	Human
Source:	E. coli Cell-free
Accession:	Q99788 (M1-L373)
Gene ID:	1240
Molecular Weight:	45.1 kDa

PROPERTIES

AA Sequence	<pre> MRMEDEDYNT S I S Y G D E Y P D Y L D S I V V L E D L S P L E A R V T R I F L V V V Y S I V C F L G I L G N G L V I I I A T F K M K K T V N M V W F L N L A V A D F L F N V F L P I H I T Y A A M D Y H W V F G T A M C K I S N F L L I H N M F T S V F L L T I I S S D R C I S V L L P V W S Q N H R S V R L A Y M A C M V I W V L A F F L S S P S L V F R D T A N L H G K I S C F N N F S L S T P G S S S W P T H S Q M D P V G Y S R H M V V T V T R F L C G F L V P V L I I T A C Y L T I V C K L Q R N R L A K T K K P F K I I V T I I I T F F L C W C P Y H T L N L L E L H H T A M P G S V F S L G L P L A T A L A I A N S C M N P I L Y V F M G Q D F K K F K V A L F S R L V N A L S E D T G H S S Y P S H R S F T K M S S M N E R T S M N E R E T G M L </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
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 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
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	The CMKLR1 Protein functions as a receptor for the chemoattractant adipokine chemerin/RARRES2 and the omega-3 fatty
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acid-derived molecule resolvin E1. Upon interaction with RARRES2, CMKLR1 activates G proteins G(i)/G(o) and beta-arrestin pathways, triggering cellular responses through second messenger pathways like intracellular calcium mobilization, phosphorylation of MAP kinases (MAPK1/MAPK3), TYRO3, MAPK14/P38MAPK, and PI3K. These cascades lead to multifunctional effects, including the reduction of immune responses, enhancement of adipogenesis, and angiogenesis. Resolvin E1, on the other hand, down-regulates cytokine production in macrophages by reducing the activation of MAPK1/3 (ERK1/2) and NF-kappa-B. CMKLR1 also plays a positive regulatory role in adipogenesis and adipocyte metabolism. In the context of microbial infection, CMKLR1 acts as a coreceptor for several SIV strains (SIVMAC316, SIVMAC239, SIVMACL7E-FR, and SIVSM62A) as well as for a primary HIV-1 strain (92UG024-2).

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA