## CKLF1-C19

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MedChemExpress

Cat. No.:	HY-P3982			
CAS No.:	960358-79-6			
Molecular Formula:	C <sub>103</sub> H <sub>161</sub> N <sub>27</sub> O <sub>28</sub>			
Molecular Weight:	2225.54 ENPSGPYO			
Sequence Shortening:	FNPSGPYQKKPVHEKKEVL			
Target:	CCR			
Pathway:	GPCR/G Protein; Immunology/Inflammation			
Storage:	Sealed storage, away from moisture			
	Powder -80°C	2 years		
	-20°C	1 year		
	* In solvent : -80°C, 6	months; -20°C, 1 month (sealed storage, away from moisture)		

## SOLVENT & SOLUBILITY

In Vitro

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	0.4493 mL	2.2466 mL	4.4933 m
	5 mM	0.0899 mL	0.4493 mL	0.8987 m
	10 mM	0.0449 mL	0.2247 mL	0.4493 m

Please refer to the solubility information to select the appropriate solvent.

BIOEOGICAL ACTIVITY					
Description	CKLF1-C19 is the C-terminal peptide of human chemokine-like factor 1 (CKLF1). CKLF1-C19 interacts with CCR4, and inhibits chemotaxis induced by both CKLF1 and CCL17. CKLF1-C19 can suppress allergic lung inflammation via inhibiting chemotaxis mediated by CCR3 and CCR4 <sup>[1]</sup> .				
IC <sub>50</sub> & Target	CCL17-CCR4 CCR3				
In Vitro	CKLF1-C19 (200 ng/mL or 500 ng/mL; 30 min) induces chemotactic migration of human Th2 cells <sup>[1]</sup> . CKLF1-C19 (100 ng/mL; 30 min) inhibits CCL11-induced chemotaxis of mouse eosinophils and human CCR3-transfected or mouse CCR3-transfected HEK293 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				
In Vivo	CKLF1-C19 (0.01-100 μg, 200 μL; i.p.; single dose at day 24-26, 30 min before OVA induced) results in a significant reduction of airway hyperresponsiveness (AHR) compared to ovalbumin (OVA) group with saline <sup>[1]</sup> .				

Product Data Sheet

CKLF1-C19 (0.5 mg or 1 mg, 200 μL; s.c.; single dose) reduces CCL11-mediated recruitment of eosinophils into the peritoneal cavity in a mouse model of asthma<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Tian L, et al. The CKLF1-C19 peptide attenuates allergic lung inflammation by inhibiting CCR3- and CCR4-mediated chemotaxis in a mouse model of asthma. Allergy. 2011 Feb;66(2):287-97.

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

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