Product Data Sheet

Product Name: TLQP-21 TFA
Cat. No.: GC61335

Chemical Properties

Cas. No.

Formula	$C_{109}H_{171}F_3N_{40}O_{28}$	M.Wt	2546.77
Solubility	H_2O : 50 mg/mL (19.63 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure

TLQPPASSRRRHFHHALPPAR (TFA salt)

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Background

TLQP-21 TFA, a VGF-derived peptide endowed of endocrine and extraendocrine properties, is a potent G-protein-coupled receptor complement-3a receptor1 (C3aR1) agonist (EC50: mouse TLQP-21=10.3 μM; human TLQP-21=68.8μM). TLQP-21 TFA activates C3aR1 to induce an increase of intracellular Ca2+. TLQP-21 TFA is used for the research in regulation of nociception and other relevant physiologic functions[1][2].

TLQP-21 TFA is a peptide of 21 amino acids. At a dose of 3 μM TLQP-21 induces up to ~69% of the corresponding contraction promoted by acetylcholine[1][2].

[1]. Elena Bresciani , et al. TLQP-21, A VGF-Derived Peptide Endowed of Endocrine and Extraendocrine Properties: Focus on In Vitro Calcium Signaling. Int J Mol Sci. 2019 Dec 24;21(1):130. [2]. Cheryl Cero, et al. The TLQP-21 Peptide Activates the G-protein-coupled Receptor C3aR1 via a Folding-Upon-Binding Mechanism. ructure. 2014 Dec 2;22(12):1744-1753.

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