

TLQP-21 TFA.

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	TLQP-21 TFA, a VGF-derived peptide with endocrine and extraendocrine properties, acts as a potent G-protein-coupled receptor complement-3a receptor1 (C3aR1) agonist (EC50: mouse TLQP-21=10.3 μ M; human TLQP-21=68.8 μ M), activating C3aR1 to increase intracellular Ca ²⁺ levels, and is used in research on nociception regulation and other relevant physiological functions[1][2].
Targets(IC50)	Complement System
In vitro	TLQP-21 TFA is a peptide of 21 amino acids. At a dose of 3 μ M TLQP-21 induces up to ~69% of the corresponding contraction promoted by acetylcholine[1][2].

Reference

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.
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.

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