

Product Data Sheet

Product Name: M65 TFA

Cat. No.: GC72221

Chemical Properties

Cas. No.

Formula $C_{205}H_{326}N_{64}O_{61}S_5 \cdot xC_2HF_3O_2$ M.Wt 4823.53 (free base)

Solubility H_2O : ≥ 50 mg/mL Storage Sealed storage, away from moisture

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

Cys-Asp-Ala-Thr-Cys-Gln-Phe-Arg-Lys-
Ala-Ile-Asp-Asp-Cys-Gln-Lys-Gln-Ala-His-
His-Ser-Asn-Val-Pro-Gly-Asn-Ser-Val-
Phe-Lys-Glu-Cys-Met-Lys-Gln-Lys-Lys-
Lys-Glu-Phe-Lys-Ala-NH₂ (Disulfide
bridge: Cys₁-Cys₅, Cys₁₄-Cys₃₂) (TFA salt)

Background

M65 TFA is a deleted peptide of maxadilan (61 a.a.) with deletion of the residues between positions 24 and 42 and is a specific antagonist of PACAP type 1 receptor that inhibits ANP secretion and can be used for relevant researches.

M65 (1 μM) completely blocks the cAMP accumulation stimulated by 100 nM of VIP, and partially inhibits the cAMP accumulation stimulated by 1 nM of maxadilan in rat cortical neurons^[2].

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

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<p >References:

- [1]. Lerner EA, et al. Maxadilan, a PAC1 receptor agonist from sand flies. Peptides. 2007 Sep;28(9):1651-4.
- [2]. Uchida D, et al. Maxadilan is a specific agonist and its deleted peptide (M65) is a specific antagonist for PACAP type 1 receptor. Ann N Y Acad Sci. 1998 Dec 11;865:253-8.

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