

Product Data Sheet

Product Name: RES-701-3 peptide TFA

Cat. No.: GC79668

Chemical Properties

Cas. No.

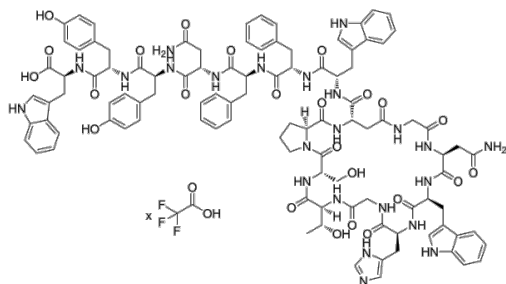
Formula $C_{103}H_{115}N_{23}O_{24} \cdot xC_2H_4O_2$ M.Wt 2059.15

Solubility 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



Background

RES-701-3 peptide TFA is a class II lasso peptide. RES-701-3 peptide TFA can be isolated from the fermentation broth of Streptomyces species. RES-701-3 peptide TFA potently inhibits the binding of ET-1 to ET B, with an IC₅₀ of approximately 5-10 nM. RES-701-3 peptide TFA is applicable to

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

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research related to systemic hypertension, myocardial infarction, and myocardial ischemia [1] [2].

In Vitro, RES-701-3 peptide TFA potentially inhibits the binding of ET-1 to type B endothelin receptor, with an IC₅₀ of approximately 5-10 nM^[1].

References:

- [1]. Oves-Costales D, et al. Identification, Cloning and Heterologous Expression of the Gene Cluster Directing RES-701-3, -4 Lasso Peptides Biosynthesis from a Marine Streptomyces Strain. Mar Drugs. 2020;18(5):238. Published 2020 May 1.
- [2]. Ouyang X, et al. LassoPred: a tool to predict the 3D structure of lasso peptides. Nat Commun. 2025;16(1):5497. Published 2025 Jul 1.

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