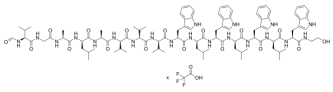
Gramicidin A TFA

Cat. No.: HY-P2324A

Molecular Formula: $C_{99}H_{140}N_{20}O_{17}.xC_2HF_3O_2$

Sequence: {For}-Val-Gly-Ala-{d-Leu}-Ala-{d-Val}-Val-{d-Val}-Trp-{d-Leu}-Trp-{d-Leu}-Trp-{d-Leu}-Trp-{NHCH2CH2OH}



Target: Antibiotic; Bacterial

Pathway: Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Gramicidin A (TFA) is a peptide component of gramicidin, an antibiotic mixture originally isolated from B. brevis. Gramicidin A (TFA) is a highly hydrophobic channel-forming ionophore that forms channels in model membranes that are permeable to monovalent cations. Gramicidin A (TFA) induces degradation of hypoxia inducible factor 1 α (HIF-1α)[1][2].

CUSTOMER VALIDATION

- Cell Rep Med. 2023 Mar 2;100957.

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REFERENCES

[1]. Takada Y, et al. Discovery of gramicidin A analogues with altered activities by multidimensional screening of a one-bead-one-compound library. Nat Commun. 2020 Oct 1;11(1):4935.

[2]. David JM, et al. Gramicidin A induces metabolic dysfunction and energy depletion leading to cell death in renal cell carcinoma cells. Mol Cancer Ther. 2013 Nov;12(11):2296-307.

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