

Product Name: TP4 (Nile tilapia piscidin)

Cat. No.: MRP-2505-CXX-42

Package: 1 mg/5 mg/10 mg/50 mg/100 mg

Description

TP4 (Nile tilapia piscidin) is an orally active, piscidin-like antimicrobial peptide. It inhibits various Gram-positive and negative strains (MIC: 0.03-10 µg/mL), exhibits hemolytic activity, and enhances immune response, antioxidant activity, and intestinal health against bacterial infections. TP4 also has anti-tumor effects, inducing necrosis via mitochondrial dysfunction in cancer cells.

Product Details

Purity: 97.11%

Formula: C₁₃₅H₂₂₆N₅₀O₂₇

Molecular Weight: 2981.56

Appearance: Solid

Color: White to off-white

Biological Target: Bacterial; Necroptosis

Research Areas: Cancer


Sequence: Phe-Ile-His-His-Ile-Ile-Gly-Gly-Leu-Phe-Ser-Ala-Gly-Lys-Ala-Ile-His-Arg-Leu-Ile-Arg-Arg-Arg-Arg-Arg

Sequence Shortening: FIHHIIGGLFSAGKAIHRLIRRRRR

Solubility: H₂O: 100 mg/mL (33.54 mM)

Shipping Conditions: Room Temperature

Storage Information: Powder: -80°C (2 years), -20°C (1 year); In solvent: -80°C (6 months), -20°C (1 month)

 For preclinical research and development use only; not intended for therapeutic or other applications.