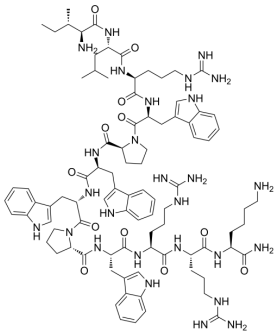
Omiganan



Cat. No.: HY-105048

CAS No.: 204248-78-2

Molecular Formula: $C_{90}H_{127}N_{27}O_{12}$

Molecular Weight: 1779.15

Sequence Shortening: ILRWPWWPWRRK-NH2

Target: Bacterial; Antibiotic

Pathway: Anti-infection

Storage: Sealed storage, away from moisture and light, under nitrogen

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

SOLVENT & SOLUBILITY

In Vitro

H_2O : 50 mg/mL (28.10 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.5621 mL	2.8103 mL	5.6207 mL
	5 mM	0.1124 mL	0.5621 mL	1.1241 mL
	10 mM	0.0562 mL	0.2810 mL	0.5621 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Omiganan is a cationic antimicrobial peptide. Omiganan as an analogue of indolicidin shows activity against gram-positive and gram-negative bacteria but also Candida spp. isolates. Omiganan can be used for the research of alcohol nose and acne [1][2].

In Vivo

Omiganan results in a statistically significantly reduction in bacterial counts. omiganan reduces the bacterial counts by 3.8 (S. aureus), 2.2 (S. epidermidis) and 2.3 (C. albicans) $\log_{10}$ CFU/site. Omiganan has rapid bactericidal and fungicidal properties and significant dose-dependent activity against a broad spectrum of infected organisms[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Faccone D, et al. Antimicrobial activity of de novo designed cationic peptides against multi-resistant clinical isolates. Eur J Med Chem. 2014;71:31-35.

[2]. Rubinchik E, et al. Antimicrobial and antifungal activities of a novel cationic antimicrobial peptide, omiganan, in experimental skin colonisation models. Int J Antimicrob Agents. 2009;34(5):457-461.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA