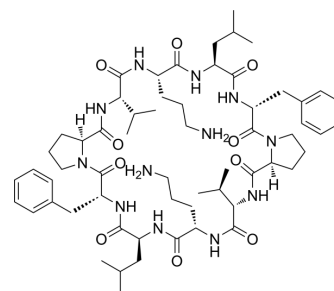


Gramicidin S

Cat. No.:	HY-P5712
CAS No.:	113-73-5
Molecular Formula:	C ₆₀ H ₉₂ N ₁₂ O ₁₀
Molecular Weight:	1141.45
Sequence:	cyclo(Val-Orn-Leu-D-Phe-Pro) ₂
Sequence Shortening:	cyclo(VOLDFP) ₂
Target:	Antibiotic; Bacterial
Pathway:	Anti-infection
Storage:	Sealed storage, away from moisture and light
	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)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (87.61 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	0.8761 mL	4.3804 mL	8.7608 mL
5 mM	0.1752 mL	0.8761 mL	1.7522 mL
10 mM	0.0876 mL	0.4380 mL	0.8761 mL

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

BIOLOGICAL ACTIVITY

Description

Gramicidin S (Gramicidin soviet) is a cationic cyclic peptide antibiotic. Gramicidin S is active against Gram-negative and Gram-positive bacteria by perturbing integrity of the bacterial membranes. Gramicidin S also inhibits cytochrome bd quinol oxidase^[1].

REFERENCES

[1]. Mogi T, et al. Gramicidin S and polymyxins: the revival of cationic cyclic peptide antibiotics. Cell Mol Life Sci. 2009 Dec;66(23):3821-6.

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

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