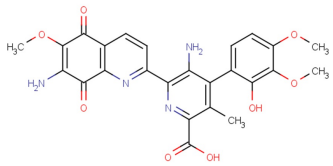
Data Sheet (Cat.No.T16946)

TargetMol
A DRUG SCREENING EXPERT

Streptonigrin

Chemical Properties



CAS No.:	3930-19-6
Formula:	C25H22N4O8
Molecular Weight:	506.46
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Streptonigrin is a natural product produced by Streptomyces flocculus, has both anti-tumor and anti-bacterial activity. Streptonigrin acts as a pan-PAD inhibitor (IC50s: 48.3±34.2 μM, 26.1±0.3 μM, 0.43±0.03 μM, and 2.5±0.4 μM for PAD1, PAD2, PAD3, and PAD4, respectively).
Targets(IC_{50})	PAD1: 48.3±34.2 μM PAD2: 26.1±0.3 μM PAD3: 0.43±0.03 μM PAD4: 2.5±0.4 μM

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.974 mL	9.872 mL	19.745 mL
5 mM	0.395 mL	1.974 mL	3.949 mL
10 mM	0.197 mL	0.987 mL	1.974 mL
50 mM	0.039 mL	0.197 mL	0.395 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Dreyton CJ, et al. Insights into the mechanism of Streptonigrin-induced protein arginine deiminase inactivation. Bioorg Med Chem. 2014 Feb 15;22(4):1362-9.

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Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481