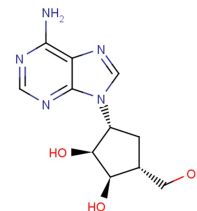


Aristeromycin

Chemical Properties

CAS No.:	19186-33-5
Formula:	C ₁₁ H ₁₅ N ₅ O ₃
Molecular Weight:	265.27
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Aristeromycin is an adenosine analog and an antibiotic and. It is a potent S-adenosylhomocysteine hydrolase (AHCY) inhibitor.
Targets(IC ₅₀)	S-adenosylhomocysteine hydrolase: None
In vitro	The IC ₅₀ value of Aristeromycin against AHCY is 38.5 nM at 50 μM S-adenosylhomocysteine (SAH) (approximately equal to the Km: 48 μM), but 271 nM at 1000 μM SAH (20× Km). With 60 min of preincubation, the mean IC ₅₀ value of Aristeromycin at 50 μM SAH is 12.7 nM. Aristeromycin has IC ₅₀ values of 3.2 μM for LNCaP-FGC cell growth and 0.88 μM for LNCaP-hr cell growth. At least in part, Aristeromycin can regulate oncogenic EZH2 expression by inducing miR-26a [1].

Solubility Information

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

	1mg	5mg	10mg
1 mM	3.77 mL	18.849 mL	37.697 mL
5 mM	0.754 mL	3.77 mL	7.539 mL
10 mM	0.377 mL	1.885 mL	3.77 mL
50 mM	0.075 mL	0.377 mL	0.754 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Uchiyama N, et al. Aristeromycin and DZNeP cause growth inhibition of prostate cancer via induction of mir-26a. Eur J Pharmacol. 2017 Oct 5;812:138-146.
2. Ishikura T, et al. Inhibition of S-adenosylhomocysteine hydrolase by purine nucleoside analogues. Nucleic Acids Symp Ser. 1983; (12):119-22.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481