
Product Data Sheet

Product Name: Aristeromycin

Cat. No.: GC35387

Chemical Properties

Cas. No. 19186-33-5

SMILES O[C@@H]1[C@H](O)[C@@H](CO)C[C@H]1N2C3=NC=NC(N)=C3N=C2Formula C11H15N5O3 M.Wt 265.27

Solubility DMSO : 50 mg/mL (188.49 mM; ultrasonic and warming and heat to 60°C) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Aristeromycin, an adenosine analog, is an antibiotic and a potent S-adenosylhomocysteine hydrolase (AHCY) inhibitor[1][2]. S-adenosylhomocysteine hydrolase[1]

The IC50 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 IC50 value of Aristeromycin at 50 μM SAH is 12.7 nM[1]. Aristeromycin has IC50 values of 3.2 μM for LNCaP-FGC cell growth and 0.88 μM for LNCaP-hr cell growth[1]. At least in part, Aristeromycin can regulate oncogenic EZH2 expression by inducing miR-26a[1].

[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.

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

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