

Arcyriaflavin A

Chemical Properties

CAS No. :	118458-54-1
Formula:	C ₂₀ H ₁₁ N ₃ O ₂
Molecular Weight:	325.32
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Arcyriaflavin A is derived from Eudistoma sp. It inhibits D1-CDK4, B-CDK1 and CaMKII with IC ₅₀ values of 0.14μM, 1.13μM and 0.025μM, respectively. Arcyriaflavin A also inhibits HCT-116 and NCI-H460 cells with IC ₅₀ values of 0.85μM and 0.59μM, respectively.
Targets(IC ₅₀)	Endogenous Metabolite, Antifungal
In vitro	Arcyriaflavin A has inhibitory effects on D1-CDK4, B-CDK1 and CaMKII, with IC ₅₀ values of 0.14μM, 1.13μM and 0.025μM, respectively. Arcyriaflavin A has inhibitory effects on HCT-116 and NCI-H460 cells, with IC ₅₀ values of 0.85μM and 0.59μM, respectively.

Solubility Information

Solubility	DMSO: 20 mg/mL (61.48 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0739 mL	15.3695 mL	30.739 mL
5 mM	0.6148 mL	3.0739 mL	6.1478 mL
10 mM	0.3074 mL	1.5369 mL	3.0739 mL
50 mM	0.0615 mL	0.3074 mL	0.6148 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Sanchez-Martinez C, et al. Aryl[a]pyrrolo[3,4-c]carbazoles as selective cyclin D1-CDK4 inhibitors. *Bioorg Med Chem Lett*. 2003 Nov 3;13(21):3835-9.

Horton PA, et al. Staurosporine aglycone (K252-c) and arcyriaflavin A from the marine ascidian, *Eudistoma* sp. *Experientia*. 1994 Sep 15;50(9):843-5.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481