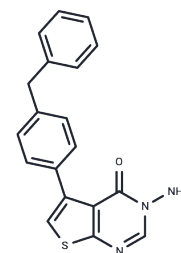


Barbadin

Chemical Properties

CAS No. :	356568-70-2
Formula:	C ₁₉ H ₁₅ N ₃ O ₂ S
Molecular Weight:	333.41
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Barbadin is a novel and specific inhibitor of β -arrestin/ β 2-adaptin interaction with an IC ₅₀ value of 19.1 μ M for β -arrestin1 and 15.6 μ M for β -arrestin2. Barbadin potentiates the long term effects of lorcaserin on POMC neurons and weight loss. Barbadin potentiates the long-term effects of lorcaserin on POMC neurons and weight loss, blocks agonist-promoted endocytosis of prototypic β 2-adrenergic, V2-vasopressin, and angiotensin-II-1 receptors, and may be useful in the study of obesity.
Targets(IC50)	Apoptosis,Arrestin

Solubility Information

Solubility	DMSO: 60 mg/mL (179.96 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9993 mL	14.9966 mL	29.9931 mL
5 mM	0.5999 mL	2.9993 mL	5.9986 mL
10 mM	0.2999 mL	1.4997 mL	2.9993 mL
50 mM	0.060 mL	0.2999 mL	0.5999 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

Beautrait A, et al. A new inhibitor of the β -arrestin/AP2 endocytic complex reveals interplay between GPCR internalization and signalling. Nat Commun. 2017 Apr 18;8:15054.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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