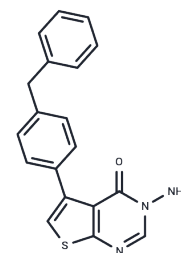


## Barbadin

## Chemical Properties

CAS No. :	356568-70-2
Formula:	C <sub>19</sub> H <sub>15</sub> N <sub>3</sub> O <sub>2</sub> S
Molecular Weight:	333.41
Appearance:	no data available
Storage:	store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Barbadin is a novel and specific inhibitor of $\beta$ -arrestin/ $\beta$ 2-adaptin interaction with an IC <sub>50</sub> value of 19.1 $\mu$ M for $\beta$ -arrestin1 and 15.6 $\mu$ M for $\beta$ -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 $\beta$ 2-adrenergic, V2-vasopressin, and angiotensin-II-1 receptors, and may be useful in the study of obesity.
Targets(IC <sub>50</sub> )	Arrestin

## Solubility Information

Solubility	DMSO: 30 mg/mL (89.98 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## 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.

## Reference

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

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