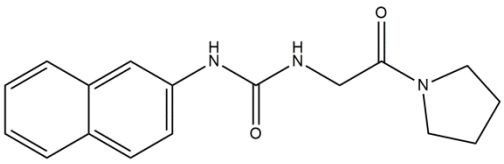
XY1

08/19

ALTERNATE NAMES: 1-naphthalen-2-yl-3-(2-oxo-2-pyrrolidin-1-ylethyl)urea; N-2-Naphthalenyl-N'-[2-oxo-2-(1-pyrrolidinyl)ethyl]urea

CATALOG #:
B2850-5 5 mg
B2850-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{17}H_{19}N_3O_2$

MOLECULAR WEIGHT: 297.35

CAS NUMBER: 1624117-53-8

APPEARANCE: A crystalline solid

PURITY: ≥98%

SOLUBILITY:
~10 mg/ml in DMF
~25 mg/ml in DMSO

DESCRIPTION: XY1 is an inactive control of SGC707. SGC707 is a potent, selective and allosteric inhibitor of Protein arginine methyltransferase3 (PRMT3) with an IC_{50} of 31 nM. It inhibits the methylation of histones in cells at a concentration of 1 µM. XY1 is an analog of SGC707 that is completely inactive against PRMT3 at concentrations as high as 100 µM.

STORAGE TEMPERATURE: -20ºC

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCE: Kaniskan, H.Ü., Szewczyk, M.M., Yu, Z., et al. A potent, selective and cell-active allosteric inhibitor of protein arginine methyltransferase 3 (PRMT3). Angew.Chem. 127, 1-34 (2015).

RELATED PRODUCTS:

A-366 (Cat. No. 2859)
DiscoveryPak™ Epigenetic Modulators Set III (Cat. No. S220)
UNC0321 tri (trifluoroacetate salt) (Cat. No. B2837)
SGC707 (Cat. No. B2846)
BRD4770 (Cat. No. 9525)

DISCLAIMER: ***FOR RESEARCH USE ONLY! Not to be used on humans.***