

Product Data Sheet

Product Name: C-171
Cat. No.: GC46984

Chemical Properties

Cas. No. 2244881-69-2

SMILES O=C(C1=CC=C([N+])([O-])=O)O1)NC2=CC=C(CCCCCC)C=C2

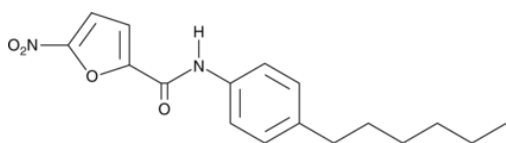
Formula C₁₇H₂₀N₂O₄ M.Wt 316.4

Solubility DMF: 25 mg/ml, DMSO: 25 mg/ml 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

C-171 is an inhibitor of stimulator of interferon genes (STING).^{1,2} It binds to STING, inhibits its palmitoylation, and prevents the recruitment and phosphorylation of TBK1.¹ It selectively reduces human and mouse STING-, but not RIG-I or TBK1-, mediated IFN-β reporter activity in HEK293 cells when used at concentrations ranging from 0.02 to 2 μM.

1. Haag, S.M., Gulen, M.F., Raymond, L., et al. Targeting STING with covalent small-molecule inhibitors. *Nature* 559(7713):269-273 (2018). 2. Zhang, H., You, Q.-D., and Xu, X.-L. Targeting stimulator of interferon genes (STING): A medicinal chemistry perspective. *J. Med. Chem.* 63(8):3785-3816 (2019).

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA