

Product Data Sheet

Product Name: SMI-481
Cat. No.: GC44905

Chemical Properties

Cas. No. 432020-20-7

SMILES FC1=C(N2CCN(C(C3=CC([N+])([O-])=O)=C(Cl)C=C3)=O)CC2)C=CC=C1

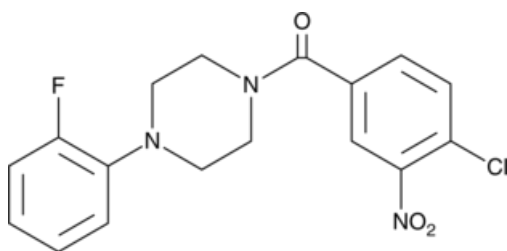
Formula C₁₇H₁₅ClFN₃O₃ M.Wt 363.8

Solubility DMF: 50 mg/ml, DMF:PBS (pH 7.2) Storage Store at -20°C
(1:4): 0.2 mg/ml, DMSO: 30 mg/ml, Ethanol: 0.3 mg/ml

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

Phosphatidylinositol (PtdIns) transfer proteins (PITPs) mediate the exchange of PtdIns and phosphatidylcholine between membranes, a step required for a wide array of cellular processes including cell division. SMI-481 is an inhibitor of the yeast PITP Sec14, blocking both Sec14-mediated transfer of [3H]-PtdIns in vitro and growth (IC₅₀s = 0.21 and 2.87 μM, respectively). Suppression of Sec14 expression leads to proportional reduction in SMI-481 inhibition, suggesting that SMI-481 acts specifically through Sec14. Moreover, SMI-481 does not affect [3H]-PtdIns transfer mediated by other yeast PITPs.

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