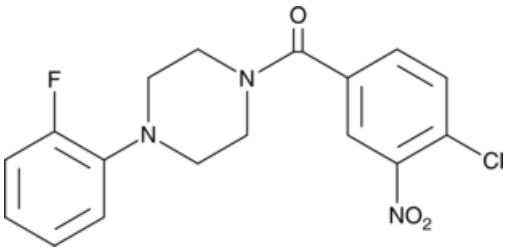
Product Data Sheet

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) (1:4): 0.2 mg/ml,DMSO: 30 mg/ml,Ethanol: 0.3 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

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.
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