

Product Data Sheet

Product Name: C-178
Cat. No.: GC40570

Chemical Properties

Cas. No. 329198-87-0

SMILES O=C(NC1=CC=C(C(C=CC=C2)=C2O3)C3=C1)C4=CC=C([N+])([O-])=O)O4

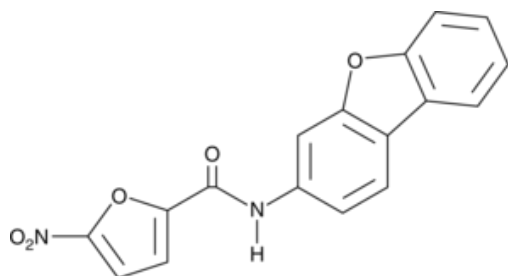
Formula C₁₇H₁₀N₂O₅ M.Wt 322.3

Solubility DMF: 14.2 mg/ml, DMSO: 20 mg/ml, Ethanol: 0.25 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-178 is a covalent inhibitor of STING. It binds to Cys91 on STING to block its palmitoylation and prevents recruitment and phosphorylation of TBK1 in HEK293T cells. C-178 (0.01-1.25 µM) selectively reduces STING-, but not RIG-I- or TBK1-, mediated IFN-β reporter activity in HEK293 cells. It also prevents increases in Ifnb1 expression in bone marrow-derived macrophages (BMDMs) induced by cyclic di-GMP, double-stranded DNA, and LPS when used at a concentration of 0.5 µM.

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

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