

Product Data Sheet

Product Name: C-178
Cat. No.: GC38494

Chemical Properties

Cas. No. 329198-87-0

SMILES O=C(C1=CC=C([N+][O-])=O)O1)NC2=CC=C3C(OC4=CC=CC=C4)=C2

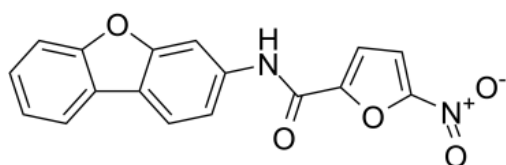
Formula $C_{17}H_{10}N_2O_5$ M.Wt 322.27

Solubility DMSO: 41.67 mg/mL (129.30 mM) 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, a covalent inhibitor of STING, binds to Cys91, potently and selectively suppresses the STING responses elicited by distinct bona fide activators in mouse but not human. C-178 significantly reduces STING-, but not RIG-I- or TBK1-, mediated IFN- β reporter activity. C-178 blocks palmitoylation (PMA)-induced clustering of STING; inhibits the CMA-induced phosphorylation of TBK1 (downstream protein kinase of STING)[1].

[1]. Haag SM, et al. Targeting STING with covalent small-molecule inhibitors. Nature. 2018

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

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Jul;559(7713):269-273.

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