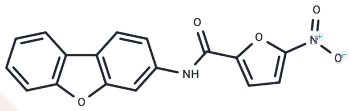
# Data Sheet (Cat.No.T7329)

TargetMol

## C-178

### Chemical Properties



CAS No. : 329198-87-0

Formula: C17H10N2O5

Molecular Weight: 322.27

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

### Biological Description

| | |
|---|---|
| Description | C-178 is a covalent inhibitor of STING, binds to Cys91 on STING to block its palmitoylation and prevents recruitment and phosphorylation of TBK1 in HEK293T cells. |
| Targets(IC50) | STING |
| In vitro | 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. |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 3.23 mg/mL (10.02 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 3.103 mL | 15.5149 mL | 31.0299 mL |
| 5 mM | 0.6206 mL | 3.103 mL | 6.206 mL |
| 10 mM | 0.3103 mL | 1.5515 mL | 3.103 mL |
| 50 mM | 0.0621 mL | 0.3103 mL | 0.6206 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Haag S M , Gulen M F , Luc R , et al. Targeting STING with covalent small-molecule inhibitors[J]. Nature, 2018.