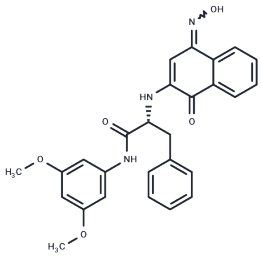
# Data Sheet (Cat.No.T36645)

TargetMol

CAY10763

## Chemical Properties



CAS No. : 2364458-49-9

Formula: C27H25N3O5

Molecular Weight: 471.513

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 | CAY10763 is a dual inhibitor of indolamine 2,3-dioxygenase 1 (IDO1; IC50= 46 nM) and STAT3 activation.1It binds to STAT3 (Kd= 530 nM) and selectively reduces the levels of STAT3 phosphorylated at the tyrosine in position 705 (STAT3Y705) over phosphorylated STAT3S727, STAT1, and STAT5 in SKOV3 cells when used at a concentration of 500 nM. It also inhibits STAT3 nuclear translocation in SKOV3 cells. CAY10763 is cytotoxic to HCT116, SKOV3, A549, and HepG2 cancer cells (IC50s = 37, 28, 33, and 12 nM, respectively). It reduces tumor growth in B16/F10 mouse melanoma and HepG2 mouse xenograft models when administered at doses of 100 and 10 mg/kg, respectively. |
| Targets(IC50) | Others |

## Solubility Information

| | |
|---|---|
| Solubility | DMF: 30 mg/mL (63.62 mM),Sonication is recommended.<br>DMSO: 30 mg/mL (63.62 mM),Sonication is recommended.<br>Ethanol: 30 mg/mL (63.62 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.1208 mL | 10.6042 mL | 21.2085 mL |
| 5 mM | 0.4242 mL | 2.1208 mL | 4.2417 mL |
| 10 mM | 0.2121 mL | 1.0604 mL | 2.1208 mL |
| 50 mM | 0.0424 mL | 0.2121 mL | 0.4242 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

Huang, R., Jing, X., Huang, X., et al.Bifunctional naphthoquinone aromatic amide-oxime derivatives exert combined immunotherapeutic and antitumor effects through simultaneous targeting of indoleamine-2,3-dioxygenase and signal transducer and activator of transcription 3J. Med. Chem.63(4)1544-1563(2020)



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