Product Data Sheet

Product Name: GNE684
Cat. No.: GC36170

Chemical Properties

Cas. No.	2438637-64-8		
SMILES	COC1=NC=C(N(C)C([C@@H](NC(C2=NN([C@H](C3=CC=CC=C3)CC4)C4=N2)=O)CC5)=O)C5=C1		
Formula	$C_{23}H_{24}N_6O_3$	M.Wt	432.48
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	GNE684		

Background

GNE684 is a potent inhibitor of potent receptor interacting protein 1 (RIP1), with mean Kiapp values of 21 nM, 189 nM and 691 nM for human mouse and rat RIP1, respectively[1]. IC50: 21 nM (human RIP1), 189 nM (mouse RIP1), 691 nM (rat RIP1)[1]

GNE684 (20 μM; 20 hours) inhibits RIP1 kinase driven cell death effectively in several human and mouse cell lines[1].GNE684 (20 μM; 0-60 minutes) disrupts TBZ (2 μM BV6, 20 ng/ml TNF, 20 μM zVAD)-induced RIP1 autophosphorylation, interactions between RIP1 and RIP3, RIP3 autophosphorylation, and phosphorylation of MLKL by RIP3[1]. Cell Viability Assay[1] Cell Line: L929 cells, Jurkat cells, MEFs

GNE684 also had no impact on overall survival or tumor growth in the KPP or KPR (LSL-Kras G12D/+; p16/p19 fl/wt ; Trp53 R270H/wt ; Pdx1-cre) PDAC models[1].GNE684 (50mg/kg; p.o. twice daily) inhibits colitis and ileitis caused by NEMO deficiency in intestinal epithelial cells (IECs)[1]. Animal Model: Nemofl/fl Villin.creERT2 mice (NEMO IEC-KO)[1]

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[1]. Patel S, et al. RIP1 inhibition blocks inflammatory diseases but not tumor growth or metastases. Cell Death Differ. 2019 May 17.

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