

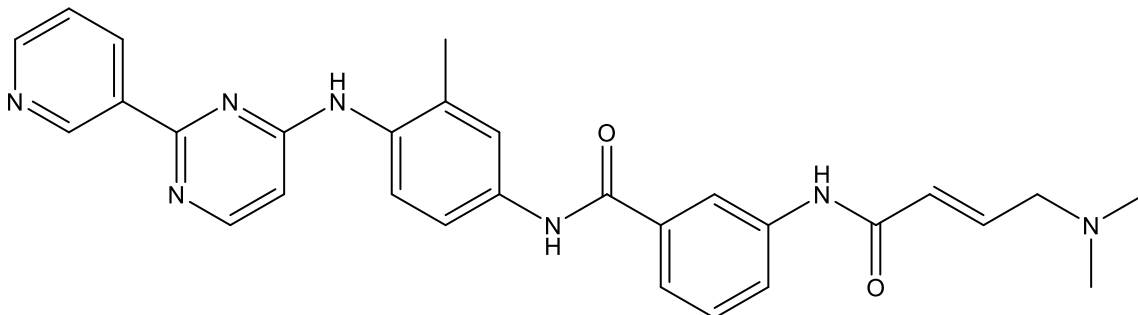
**Catalog # 10-4780**

**JNK-IN-8**

CAS# 1410880-22-6

3-[[4-(Dimethylamino)-1-oxo-2-buten-1-yl]amino]-N-[3-methyl-4-[[4-(3-pyridinyl)-2-pyrimidinyl]amino]phenyl]benzamide

Lot # R110375



A potent and selective irreversible JNK inhibitor ( $IC_{50}$ s=4.67, 18.7 and 0.98 nM for JNK1, 2 and 3 respectively).<sup>1</sup> JNK blockade with JNK-IN-8 overcomes PD-L1-mediated resistance to chemotherapy in colorectal cancer.<sup>2</sup> Improves ARDS-induced cognitive impairment by inhibition of JNK/NF- $\kappa$ B-mediated NLRP3 inflammasome activation.<sup>3</sup>

- 1) Zhang *et al.* (2012), *Discovery of potent and selective covalent inhibitors of JNK*; Chem. Biol. **19** 140
- 2) Sun *et al.* (2021), *Irreversible JNK blockade overcomes PD-L1-mediated resistance to chemotherapy in colorectal cancer*; Oncogene **40** 5105
- 3) Shi *et al.* (2023), *JNK-IN-8 treatment improves ARDS-induced cognitive impairment by inhibiting JNK/NF- $\kappa$ B-mediated NLRP3 inflammasome*; Brain Behav. **13** e2980

**PHYSICAL DATA**

Molecular Weight:	507.60
Molecular Formula:	C <sub>29</sub> H <sub>29</sub> N <sub>7</sub> O <sub>2</sub>
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (45 mg/ml)
Physical Description:	Pale yellow solid
Storage and Stability:	Store as supplied at -20C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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