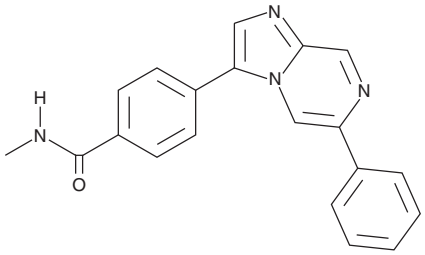
PRODUCT INFORMATION

AZ 32

Item No. 26380

CAS Registry No.: 2288709-96-4
Formal Name: N-methyl-4-(6-phenylimidazo[1,2-a]pyrazin-3-yl)-benzamide
MF: $C_{20}H_{16}N_4O$
FW: 328.4
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

AZ 32 is supplied as a solid. A stock solution may be made by dissolving the AZ 32 in the solvent of choice, which should be purged with an inert gas. AZ 32 is soluble in the organic solvent DMSO at a concentration of approximately 150 mg/ml.

Description

AZ 32 is an inhibitor of ataxia-telangiectasia mutated (ATM) kinase (IC_{50} = <6.2 nM).[1] It is selective for ATM over PI3Kα and ataxia-telangiectasia and Rad3-related (ATR) kinase (IC_{50}s = 4.6 and >4.6 µM, respectively). AZ 32 enhances radiation-induced cytotoxicity in a panel of five human glioma cells expressing wild-type or mutant p53. It increases survival in a U87-281G glioma orthotopic mouse xenograft model, as well as a NCI H2228 non-small cell lung cancer (NSCLC) mouse xenograft model of metastatic brain tumors, when administered at doses of 200 and 50 mg/kg, respectively, in combination with ionizing radiation.

Reference

1. Karlin, J., Allen, J., Ahmad, S.F., *et al.* Orally bioavailable and blood-brain barrier-penetrating ATM inhibitor (AZ32) radiosensitizes intracranial gliomas in mice. *Mol. Cancer Ther.* **17(8)**, 1637-1647 (2018).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM