
Product Data Sheet

Product Name: A12B4C3

Cat. No.: GC50097

Chemical Properties

Cas. No. 1005129-80-5

SMILES O=C2N(C4=CC=CC=C4)C(C1C=CC(C(O)CCCCCCCCC)N(NC3=CC=C([N+](O-)=O)C=C3)C12)=O

Formula	C ₃₀ H ₃₈ N ₄ O ₅	M.Wt	534.65
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Solubility	Soluble in DMSO	Storage	Store at -20°C
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General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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 **Background**

Potent and selective polynucleotide kinase/phosphatase (PNKP) inhibitor (IC₅₀ = 60 nM). Displays no effect on calcineurin, protein PP-1 or APTX. Interrupts DNA repair and enhances radiosensitivity of human A549 lung carcinoma and MDA-MB-231 cells.

Freschauf et al (2009) Identification of a small molecule inhibitor of the human DNA repair enzyme polynucleotide kinase/phosphatase. Cancer Res. 69 7739 PMID:19773431
 |Freschauf et al (2010) Mechanism of action of an imidopiperidine inhibitor of human polynucleotide kinase/phosphatase. J.Biol.Chem. 285 2351 PMID:19940137
 |Schellenberg et al (2011) DNA end processing by polynucleotide kinase/phosphatase. Proc.Natl.Acad.Sci.U.S.A. 108 20855 PMID:22184240

Caution: Product has not been fully validated for medical applications. For research use only.

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