



Product Information

DNMT inhibitor Lomeguatrib, Purity $\geq 98\%$

Cat. No.: X24-05-ZQ556

Size: 10 mg; 25 mg; 50 mg

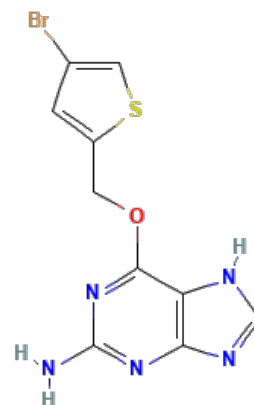
CAS Number: 192441-08-0

Compound CID: 3025944

Synonym: 192441-08-0; O6-(4-bromophenyl)guanine; DNA methyltransferase

inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Lomeguatrib, soluble in DMSO and insoluble in ethanol and water, blocks the addition of methyl groups to DNA by methyltransferases, impacting gene expression and genome stability. It targets O6-alkylguanine-DNA-alkyltransferase.
Molecular Weight	326.17
Molecular Formula	C ₁₀ H ₈ BrN ₅ OS
Targets	O6-alkylguanine-DNA-alkyltransferase: 5 nM
IUPAC Name	6-[(4-Bromothiophen-2-yl)methoxy]-7H-purin-2-amine
InChI	InChI=1S/C10H8BrN5OS/c11-5-1-6(18-3-5)2-17-9-7-8(14-4-13-7)15-10(12)16-9/h1,3-4H,2H2,(H3,12,13,14,15,16)
InChI Key	JUJPKFNFCWJBCX-UHFFFAOYSA-N
Canonical SMILES	C1=C(SC=C1Br)COC2=NC(=NC3=C2NC=N3)N
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 60 mg/mL (183.95 mM); Water: Insoluble; Ethanol: Insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	Lomeguatrib can be used to inhibit the DNA repair enzyme MGMT, enhancing the efficacy of alkylating agents in cancer therapy.
Storage	Store at -20°C.



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