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DATASHEET

Lomeguatrib

Product overview

Name	Lomeguatrib
Cat No	HB1376
Alternative names	PaTrin-2; Patrin; O ⁶ -(4-bromothienyl)guanine; 4-BTG
Biological action	Inhibitor
Purity	>98%
Description	Potent MGMT inhibitor

Biological Data

Biological description	Potent O ⁶ -methylguanine-DNA methyltransferase (MGMT) inhibitor (IC ₅₀ = 9 nM). Acts as a pseudosubstrate. Enhances temozolomide anti-tumor activity. Shows anti-cancer actions.
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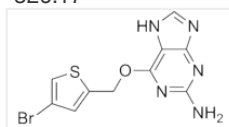
Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	6-[(4-Bromo-2-thienyl)methoxy]-9H-purin-2-amine
Molecular Weight	326.17

Chemical structure



Molecular Formula	C ₁₀ H ₈ BrN ₅ OS
CAS Number	192441-08-0
PubChem identifier	3025944
SMILES	NC1=NC(OCC3=CC(Br)=CS3)=C2C(N=CN2)=N1
InChIKey	JUJPKFNFCWJBCX-UHFFFAOYSA-N

References

Monosaccharide-linked inhibitors of O(6)-methylguanine-DNA methyltransferase (MGMT): synthesis, molecular modeling, and structure-activity relationships.

Reinhard J *et al* (2001) J Med Chem 44(24)

PubMedID [11708909](#)

O6-(4-bromothienyl)guanine reverses temozolomide resistance in human breast tumour MCF-7 cells and xenografts.

Clemons M *et al* (2005) Br J Cancer 93(10)

PubMedID 16278661

The therapeutic potential of O6-alkylguanine DNA alkyltransferase inhibitors.

Khan O *et al* (2007) Expert Opin Investig Drugs 16(10)

PubMedID 17922622
