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# DATASHEET

Lomeguatrib

## Product overview

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

## Biological Data

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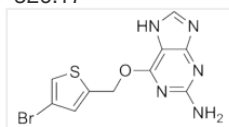
## Solubility & Handling

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

## Chemical Data

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

**Chemical structure**



<b>Molecular Formula</b>	C <sub>10</sub> H <sub>8</sub> BrN <sub>5</sub> OS
<b>CAS Number</b>	192441-08-0
<b>PubChem identifier</b>	3025944
<b>SMILES</b>	NC1=NC(OCC3=CC(Br)=CS3)=C2C(N=CN2)=N1
<b>InChiKey</b>	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

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