

CRT Licensing Opportunity



Small Molecule Tool for Reagent Use

- The DNA repair protein, O⁶-alkylguanine-DNA alkyltransferase (human version: MGMT) can confer resistance to some DNA alkylating agents e.g. Temozolomide, DTIC, Carmustine, etc.
- Lomeguatrib is a highly potent inactivator of MGMT and can be used to further investigate mechanisms of resistance often seen with these cancer chemotherapeutics.

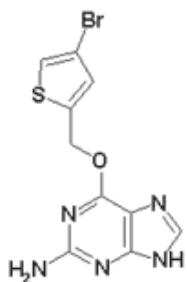
SMALL MOLECULES

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Small molecules as reagents have many and varied uses. CRT is tapping into the work of Cancer Research UK-funded scientists to bring small molecules into their reagents catalogue.

We are pleased to present the datasheet below for Lomeguatrib - a specific and highly potent inactivator of DNA repair protein MGMT and related mammalian proteins. It has nanomolar activity *in vitro* and *in vivo*.

Small Molecule Reagent Datasheet for Research Use Only

Lomeguatrib - A potent irreversible inactivator of all mammalian O ⁶ -alkylguanine-DNA-alkyltransferases so far tested	
Relevance/Use	A potent inactivator of alkyltransferase proteins <i>in vitro</i> , in cultured cells and <i>in vivo</i>
British approved Name/Catalogue	Lomeguatrib
Synonyms	PaTrin-2; 2-Amino-6-[(4-bromo-2-thienyl)methoxy]-9H-purine; O ⁶ -(4-bromophenyl) guanine
Structure	
Technical Data	
Molecular Weight	326.17 g/mol
Formula	C ₁₀ H ₈ BrN ₅ OS
Solubility	Soluble in DMSO. Poorly soluble in water

References

- Barvaux et al. 2004. Mol Cancer Ther. 3: 1215-20
Clemons et al. 2005. Br J Cancer. 93: 1152-6
Ranson et al. 2006. Clin Cancer Res. 12: 1577-84
Khan et al. 2008. Br J Cancer. 98: 1614-8
Watson et al. 2010. Clin Cancer Res. 16: 743-9

Commercial Opportunity

This small molecule reagent opportunity is available for licensing or for sale as finished product.

Contact

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