Product Name: Lomeguatrib
Catalog No.: 4359  Batch No.: 1

CAS Number: 192441-08-0
IUPAC Name: 6-[(4-Bromo-2-thienyl)methoxy]-9H-purin-2-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{10}H_8BrN_5OS
Batch Molecular Weight: 326.17
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 98.8% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
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<td>2.39</td>
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</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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Description:
Lomeguatrib (LomG) is a potent inhibitor of O6-methylguanine-DNA methyltransferase (MGMT); \( \text{IC}_{50} = 0.009 \text{\mu M} \) in cell-free extracts from HeLa S3 cells; LomG attenuates MGMT activity in vitro and in vivo. LomG enhances the antitumor activity of temozolomide (Cat. No. 2706) in both human melanoma and MCF-7 xenografts. LomG acts as a pseudosubstrate for MGMT and can be used to induce rapid ubiquitin proteasome pathway degradation of proteins that have a MGMT fusion.

Physical and Chemical Properties:
Batch Molecular Formula: C_{15}H_{18}BrN_{3}OS
Batch Molecular Weight: 326.17
Physical Appearance: Off-white solid
Minimum Purity: \( \geq 98\% \)

Batch Molecular Structure:

![Molecular Structure](image)

Storage: Store at +4°C

Solubility & Usage Info:
DMSO to 100 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:
