BM121307

Cat. No.: HY-100295
CAS No.: 137213-91-3
Molecular Formula: C₈H₁₄N₂O₄
Molecular Weight: 202.21
Target: Guanylate Cyclase
Pathway: GPCR/G Protein
Storage: Please store the product under the recommended conditions in the Certificate of Analysis.
Solubility: DMSO

*”<1 mg/mL” means slightly soluble or insoluble. “≥” means soluble, but saturation unknown.

PREPARING STOCK SOLUTIONS

<table>
<thead>
<tr>
<th>Volume (mL)</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>4.9454</td>
<td>24.7268</td>
<td>49.4535</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.9891</td>
<td>4.9454</td>
<td>9.8907</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.4945</td>
<td>2.4727</td>
<td>4.9454</td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description: BM121307 is a guanylate cyclase activator that was in phase I development for the treatment of ischaemic heart disorders. The research has been discontinued.

In Vivo: The elimination of BM121307 and its metabolites via urine and feces amount to 76.5% after oral application, and to 80.7% of the applied dose after intravenous application. The major amount of radioactivity is eliminated via urine (69.4% and 73.6% of the dose, respectively), whereas the fecal elimination is found to be negligible. Investigations of the urinary samples show that the drug is metabolized to a high percentage trans-N-(4-Hydroxycyclohexyl) acetamide is the main metabolite; 73% of the radioactive compounds (after p.o.-administration and 69% after intravenous application could be identified as the alcohol of BM121307; the amounts of the drug totaled 9% and 13%, respectively[1].

PROTOCOL

Animal Administration[1]: Dogs[1]
The biotransformation of BM121307 in the dog is examined after oral and intravenous administration. For that purpose, the organic nitrate is synthesized as radioactive $^{14}$C- and as $^{13}$C-labeled compounds. The defined isotopic mixture is administered to the dogs. Within the examined period of 168 h, the elimination of BM121307 is measured\[^1\].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES