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 COA.

Solvent & Solubility

In Vitro 10 mM in DMSO

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Concentration</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>1 mg</td>
</tr>
<tr>
<td></td>
<td>4.9454 mL</td>
<td>24.7268 mL</td>
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<tr>
<td></td>
<td>5 mM</td>
<td>0.9891 mL</td>
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<tr>
<td></td>
<td>10 mM</td>
<td>0.4945 mL</td>
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</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

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


Caution: Product has not been fully validated for medical applications. For research use only.
Tel: 609-228-6898           Fax: 609-228-5909           E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA