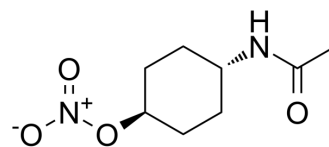


(4-Acetamidocyclohexyl) nitrate

Cat. No.:	HY-100295
CAS No.:	137213-91-3
Molecular Formula:	C ₈ H ₁₄ N ₂ O ₄
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.



BIOLOGICAL ACTIVITY

Description	(4-Acetamidocyclohexyl) nitrate (BM121307) is a guanylate cyclase activator.
In Vivo	<p>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].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

PROTOCOL

Animal Administration ^[1]	<p>Dogs^[1]</p> <p>The biotransformation of BM121307 in the dog is examined after oral and intravenous administration. For that purpose, the organic nitrate is synthesized as radioactive [¹⁴C]- and as [¹³C]-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].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
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REFERENCES

[1]. Zell C, et al. Biotransformation of the organic nitrate trans-N-(4-nitroxycyclohexyl)acetamide in dogs. *Arzneimittelforschung*. 1994 Sep;44(9):1021-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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