Product Data Sheet

Product Name: (4-Acetamidocyclohexyl) nitrate (BM121307)
Cat. No.: GC34045

Chemical Properties

Cas. No.	137213-91-3		
SMILES	CC(N[C@@H]1CC[C@@H](O[N+]([O-])=O)CC1)=O		
Formula	$C_8H_{14}N_2O_4$	M.Wt	202.21
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Protocol

Animal experiment:

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 [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].

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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.

Background

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

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].

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

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