Product Data Sheet

Product Name: BMY-25271
Cat. No.: GC31877

Chemical Properties

Cas. No.	78441-82-4		
SMILES	NC1=NS(N=C1NCCSCC2=CC=C(CN(C)C)O2)=O		
Formula	$C_{12}H_{19}N_5O_2S_2$	M.Wt	329.44
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	BMY-25271		

Protocol

Animal experiment:

Five beagle dogs are used in this study. Vehicle or BMY-25271 (0.4 mg/kg) is administered orally 1 h before aspirin (100 mg/kg). Blood samples are collected from the jugular vein just before aspirin administration and 30, 60, 90 and 120 min after aspirin administration. One week later, the dogs are crossed over, and the study is repeated[1].

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References:

[1]. Cavanagh RL, et al. Prevention of aspirin-induced gastric mucosal injury by histamine H2 receptor antagonists: a crossover endoscopic and intragastric pH study in the dog. J Pharmacol Exp Ther. 1987 Dec;243(3):1179-84.

Background

BMY-25271 is a histamine H2 receptor antagonist.

BMY-25271 is a histamine H2 receptor antagonist. The dose response curves are parallel and oral ED50 values derived from probit analysis are 0.093, 0.97 and 6.9 mg/kg for BMY-25271, ranitidine and cimetidine, respectively. BMY-25271, therefore, is about 10 and 74 times more potent than ranitidine and cimetidine, respectively. Pretreatment with the highest dose of BMY-25271 does not significantly affect the absorption of aspirin or the formation of its major metabolite, salicylic acid[1].

[1]. Cavanagh RL, et al. Prevention of aspirin-induced gastric mucosal injury by histamine H2 receptor antagonists: a crossover endoscopic and intragastric pH study in the dog. J Pharmacol Exp Ther. 1987 Dec;243(3):1179-84.

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