Product Data Sheet

Product Name: Ampiroxicam
Cat. No.: GC14104

Chemical Properties

Cas. No.	99464-64-9		
Chemical Name	ethyl 1-[[2-methyl-1,1-dioxo-3-(pyridin-2-ylcarbamoyl)-1λ6,2-benzothiazin-4-yl]oxy]ethyl carbonate		
SMILES	CCOC(=O)OC(C)OC1=C(N(S(=O)(=O)C2=CC=CC=C21)C)C(=O)NC3=CC=CC=N3		
Formula	$C_{20}H_{21}N_3O_7S$	M.Wt	447.46
Solubility	DMF: 20 mg/ml,DMF:PBS (pH 7.2)(1:3): 0.25 mg/ml,DMSO: 10 mg/ml	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	Ampiroxicam		

Background

Ampiroxicam(CP65703) is a nonselective cyclooxygenase inhibitor uesd as anti-inflammatory drug.Target: COXAmpiroxicam is a non-steroidal anti-inflammatory drug. It is a prodrug of piroxicam. Ampiroxicam inhibits the stretching response in mice induced by phenylbenzoquinone (PBQ) with maximum protective effect (MPE) of 2 mg/kg. Ampiroxicam inhibits swelling in a dose-responsive manner in the rat foot edema (RFE) assay with ED50 of 28 mg/kg at single oral dose and 7.8 mg/kg at 5 daily oral dose. Ampiroxicam blocks primary and secondary lesion development in rat adjuvant arthritis with ED50 of 2.2 mg/kg and 0.5 mg/kg, respectively. Ampiroxicam (3.2 mg/kg) leads to a plasma concentration of 12 μg/mL at a Tmax of 2 hours for piroxicam derived from ampiroxicam in rats [1]. Ultraviolet-A (UVA)-irradiated 1% Ampiroxicam sensitized in guinea pigs shows positive reaction in the patch testing to UVA-irradiated 1% Ampiroxicam and 1% thiosalicylate (TOS). Concentration of Ampiroxicam is easily

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reduced by the increase in UVA irradiation doses, as compared with that of piroxicam [2].

References:

[1]. Aoki T, et al. Premedication with cyclooxygenase-2 inhibitor meloxicam reduced postoperative pain in patients after oral surgery. Int J Oral Maxillofac Surg. 2006 Jul;35(7):613-7.

[2]. Sasaki, T., et al., Antigenic characterization in ampiroxicam-induced photosensitivity using an in vivo model of contact hypersensitivity. J Dermatol Sci, 1999. 21(3): p. 170-5.