Product Data Sheet

Product Name: Piroxicam D3
Cat. No.: GC61193

Chemical Properties

Cas. No.	942047-64-5		
SMILES	O=C(C1=C(O)C2=CC=CC=C2S(N1C([2H])([2H])[2H])(=O)=O)NC3=NC=CC=C3		
Formula	$C_{15}H_{10}D_3N_3O_4S$	M.Wt	334.36
Solubility	DMSO : 50 mg/mL (149.54 mM; Need ultrasonic); H_2O : 0.1 mg/mL (0.30 mM; Need ultrasonic)	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	Piroxicam D3		

Background

Piroxicam-d_3 is intended for use as an internal standard for the quantification of piroxicam by GC- or LC-MS. Piroxicam is a COX inhibitor and non-steroidal anti-inflammatory drug (NSAID) with anti-inflammatory and analgesic properties.[1,2] It inhibits production of thromboxane B_2 from arachidonic acid in HEL human erythroleukemic cells (IC_{50} = 0.45 ?M), which endogenously express COX-1, as well as inhibits LPS-induced formation of prostaglandin $F_{1\alpha}$ from arachidonic acid in Mono-Mac-6 cells (IC_{50} = 0.77 ?M), which endogenously express COX-2.[2] Lornoxicam reduces LPS-induced production of nitric oxide and IL-6 in cell-based assays with IC_{50} values of 240 and ~470 ?M, respectively. It reduces carrageenan-induced paw edema in rats when administered at doses of 1, 2.5, and 5 mg/kg.[3] Formulations containing piroxicam have been used in the treatment of pain and inflammation associated with osteoarthritis and rheumatoid arthritis.

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1.Pairet, M., van Ryn, J., Schierok, H., et al.Differential inhibition of cyclooxygenases-1 and -2 by meloxicam and its 4'-isomerInflamm. Res.47(6)270-276(1998) 2.Berg, J., Fellier, H., Christoph, T., et al.The analgesic NSAID lornoxicam inhibits cyclooxygenase (COX)-1/-2, inducible nitric oxide synthase (iNOS), and the formation of interleukin (IL)-6 in vitroInflamm. Res.48(7)369-379(1999) 3.Buritova, J., Honore, P., Chapman, V., et al.Carrageenan oedema and spinal Fos-LI neurones are reduced by piroxicam in the ratNeuroreport6(10)1385-1388(1995)

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