

Product Data Sheet

Product Name: 4-hydroxy Diclofenac

Cat. No.: GC42407

Chemical Properties

Cas. No. 64118-84-9

Chemical Name 2-[(2,6-dichloro-4'-hydroxyphenyl)amino]-benzeneacetic acid

SMILES OC(=O)Cc1ccccc1Nc1c(Cl)cc(O)cc1Cl

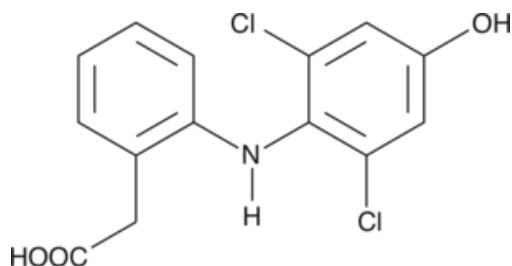
Formula C14H11Cl2NO3 M.Wt 312.2

Solubility 30mg/mL in ethanol, or in DMSO, or in DMF Storage Store at -20°C, protect from light, stored under nitrogen

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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



Background

4-hydroxy Diclofenac is a CYP2C9 metabolite of the NSAID diclofenac.[1] [2] [3] By inhibiting COX and subsequently suppressing PGE2 synthesis, it demonstrates anti-inflammatory and analgesic properties.[4]

Reference:

[1]. Shimamoto, J., Ieiri, I., Urae, A., et al. Lack of differences in diclofenac (a substrate for CYP2C9) pharmacokinetics in healthy volunteers with respect to the single CYP2C9*3 allele. European Journal of Clinical Pharmacology 56, 65-68 (2000).

[2]. Sawchuk, R.J., Maloney, J.A., Cartier, L.L., et al. Analysis of diclofenac and four of its metabolites

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

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in human urine by HPLC. Pharm. Res. 12(5), 756-762 (1995).

[3]. Godbillon, J., Gauron, S., and Metayer, J.P. High-performance liquid chromatographic determination of diclofenac and its monohydroxylated metabolites in biological fluids. Journal of Chromatography 27, 151-159 (1985).

[4]. Yamakazi, R., Kawai, S., Matsumoto, T., et al. Hydrolytic activity is essential for aceclofenac to inhibit cyclooxygenase in rheumatoid synovial cells. Journal of Pharmacology and Experimental Therapeutics 289(2), 676-681 (1999)

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