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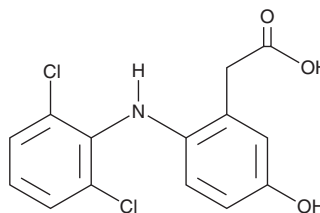
PRODUCT INFORMATION



5-hydroxy Diclofenac

Item No. 23369

CAS Registry No.: 69002-84-2
Formal Name: 2-[(2,6-dichlorophenyl)amino]-5-hydroxybenzeneacetic acid
MF: C₁₄H₁₁Cl₂NO₃
FW: 312.2
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

5-hydroxy Diclofenac is supplied as a solid. A stock solution may be made by dissolving the 5-hydroxy diclofenac in the solvent of choice. 5-hydroxy Diclofenac is soluble in the organic solvent DMSO, which should be purged with an inert gas.

Description

5-hydroxy Diclofenac is a metabolite of the NSAID diclofenac (Item No. 70680) formed by the cytochrome P450 (CYP) isoform CYP3A4.^{1,2} Diclofenac is a non-selective COX inhibitor.³⁻⁵ It inhibits human COX-1 and -2 with IC₅₀ values of 0.9-2.7 and 1.5-20 μM, respectively.^{3,4} Diclofenac inhibits ovine COX-1 and -2 with IC₅₀ values of 60 and 220 nM, respectively.⁵

References

1. Sawchuk, R.J., Maloney, J.A., Cartier, L.L., *et al.* Analysis of diclofenac and four of its metabolites in human urine by HPLC. *Pharm. Res.* **12**(5), 756-762 (1995).
2. Shen, S., Marchick, M.R., Davis, M.R., *et al.* Metabolic activation of diclofenac by human cytochrome P450 3A4: Role of 5-hydroxydiclofenac. *Chem. Res. Toxicol.* **12**(2), 214-222 (1999).
3. Laneuville, O., Breuer, D.K., DeWitt, D.L., *et al.* Differential inhibition of human prostaglandin endoperoxide H synthases-1 and -2 by nonsteroidal anti-inflammatory drugs. *J. Pharmacol. Exp. Ther.* **271**(2), 927-934 (1994).
4. Barnett, J., Chow, J., Ives, D., *et al.* Purification, characterization and selective inhibition of human prostaglandin G/H synthase 1 and 2 expressed in the baculovirus system. *Biochim Biophys. Acta.* **1209**(1), 130-139 (1994).
5. Johnson, J.L., Wimsatt, J., Buckel, S.D., *et al.* Purification and characterization of prostaglandin H synthase-2 from sheep placental cotyledons. *Arch. Biochem. Biophys.* **324**(1), 26-34 (1995).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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