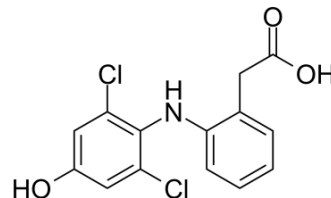


4'-Hydroxy diclofenac

| | |
|---------------------------|--|
| Cat. No.: | HY-15550 |
| CAS No.: | 64118-84-9 |
| Molecular Formula: | C ₁₄ H ₁₁ Cl ₂ NO ₃ |
| Molecular Weight: | 312.15 |
| Target: | Drug Metabolite |
| Pathway: | Metabolic Enzyme/Protease |
| Storage: | -20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen) |



BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | 4'-Hydroxy diclofenac is an orally active metabolite of Diclofenac (HY-15036) by cytochrome P450 2C9 (CYP2C9). 4'-Hydroxy diclofenac has anti-inflammatory and analgesic properties ^{[1][2]} . |
| In Vivo | A single oral administration of Diclofenac to humanized mice, the unchanged drug in plasma peaks at 0.25 hour and then declines with a half-life ($t_{1/2}$) of 2.4 hours. 4'-Hydroxy diclofenac also peaks at 0.25 hour and is undetectable within 24 hours. The plasma concentration of unchanged 4'-Hydroxy diclofenac peaks at 0.25 hour and declines rapidly in Humanized chimeric mice received of 4'-Hydroxy diclofenac (10 mg/kg; a single oral) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

- [1]. J Shimamoto, et al. Lack of Differences in Diclofenac (A Substrate for CYP2C9) Pharmacokinetics in Healthy Volunteers With Respect to the Single CYP2C9*3 Allele. *Eur J Clin Pharmacol.* 2000 Apr;56(1):65-8.
- [2]. Hidetaka Kamimura, et al. Formation of the Accumulative Human Metabolite and Human-Specific Glutathione Conjugate of Diclofenac in TK-NOG Chimeric Mice With Humanized Livers. *Drug Metab Dispos.* 2015 Mar;43(3):309-16.

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

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