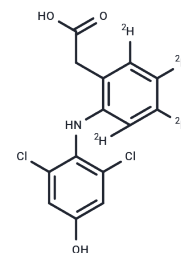


4'-Hydroxy Diclofenac-D4

Chemical Properties

CAS No. :	254762-27-1
Formula:	C ₁₄ H ₇ D ₄ Cl ₂ NO ₃
Molecular Weight:	316.17
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	4'-Hydroxy Diclofenac-D4 is a deuterated compound of 4'-Hydroxy Diclofenac (T19819) for isotope tracing. 4'-Hydroxy Diclofenac (T19819) is a CYP2C9-generated metabolite of Diclofenac with oral bioavailability, anti-inflammatory effects, and analgesic properties.
Targets(IC50)	Drug Metabolite

Solubility Information

Solubility	Ethanol: 24 mg/mL (75.91 mM), Sonication is recommended. DMF: 24 mg/mL (75.91 mM), Sonication is recommended. DMSO: 24 mg/mL (75.91 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1629 mL	15.8143 mL	31.6286 mL
5 mM	0.6326 mL	3.1629 mL	6.3257 mL
10 mM	0.3163 mL	1.5814 mL	3.1629 mL
50 mM	0.0633 mL	0.3163 mL	0.6326 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- 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.
- 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.
- Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216

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