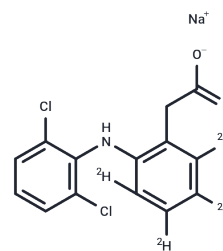


Diclofenac-D4 sodium

Chemical Properties

CAS No. :	154523-54-3
Formula:	C ₁₄ H ₁₀ Cl ₂ NNaO ₂
Molecular Weight:	322.16
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Diclofenac-D4 sodium is the deuterated form of Diclofenac sodium (T1555). Diclofenac Sodium (GP 45840) is an effective, non-selective anti-inflammatory agent that acts as a COX inhibitor, with IC ₅₀ values of 4 nM for human COX-1 and 1.3 nM for COX-2 in CHO cells. For sheep COX-1 and COX-2, the IC ₅₀ values are 5.1 μM and 0.84 μM, respectively. Diclofenac Sodium induces apoptosis in neural stem cells by activating the caspase cascade [apoptosis].
Targets(IC ₅₀)	Apoptosis, COX

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.104 mL	15.5202 mL	31.0405 mL
5 mM	0.6208 mL	3.104 mL	6.2081 mL
10 mM	0.3104 mL	1.552 mL	3.104 mL
50 mM	0.0621 mL	0.3104 mL	0.6208 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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