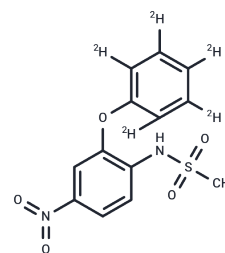


## Nimesulide D5

## Chemical Properties

CAS No. :	1330180-22-7
Formula:	C <sub>13</sub> H <sub>12</sub> N <sub>2</sub> O <sub>5</sub> S
Molecular Weight:	313.34
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	Nimesulide D5 is a deuterium-labeled derivative of the nonsteroidal anti-inflammatory drug (NSAID) nimesulide, and is used in pharmacokinetic, metabolic, and absorption studies. Nimesulide is a selective COX-2 inhibitor with an IC <sub>50</sub> value of 70 nM-70 μM. Nimesulide exhibits anti-inflammatory, analgesic, and antipyretic effects.
Targets(IC50)	COX

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1914 mL	15.9571 mL	31.9142 mL
5 mM	0.6383 mL	3.1914 mL	6.3828 mL
10 mM	0.3191 mL	1.5957 mL	3.1914 mL
50 mM	0.0638 mL	0.3191 mL	0.6383 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

Vago T, et al. Effect of nimesulide action time dependence on selectivity towards prostaglandin G/H synthase/cyclooxygenase activity. *Arzneimittelforschung*. 1995 Oct;45(10):1096-8.

Werner MF, et al. Nimesulide-induced antipyresis in rats involves both cyclooxygenase-dependent and independent mechanisms. *Eur J Pharmacol*. 2006 Aug 14;543(1-3):181-9.

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