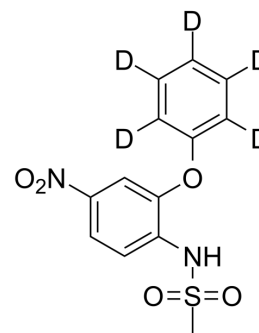


Nimesulide D5

Cat. No.:	HY-B0363S
CAS No.:	1330180-22-7
Molecular Formula:	C ₁₃ H ₇ D ₅ N ₂ O ₅ S
Molecular Weight:	313.34
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Nimesulide D5 is a deuterium labeled Nimesulide. Nimesulide is a selective COX-2 inhibitor, with IC ₅₀ s of 70 nM-70 μM in a time-dependent manner, but it shows no effect on COX-1 (IC ₅₀ >100 μM). Nimesulide has potent anti-inflammatory, analgesic and antipyretic properties ^{[1][2]} .
IC ₅₀ & Target	COX-2 0.07-70 μM (IC ₅₀)

REFERENCES

[1]. 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.

[2]. 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.

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

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