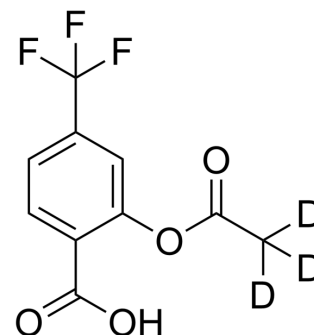


Triflusal-d₃

Cat. No.:	HY-B0531S
CAS No.:	2748541-63-9
Molecular Formula:	C ₁₀ H ₄ D ₃ F ₃ O ₄
Molecular Weight:	251.17
Target:	COX; Isotope-Labeled Compounds
Pathway:	Immunology/Inflammation; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Triflusal-d ₃ is deuterium labeled Triflusal.
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. De Miguel, L.S., et al., A 4-trifluoromethyl derivative of salicylate, triflusal, stimulates nitric oxide production by human neutrophils: role in platelet function. *Eur J Clin Invest*, 2000. 30(9): p. 811-7.
- [3]. Duran, X., et al., Protective effects of triflusal on secondary thrombus growth and vascular cyclooxygenase-2. *J Thromb Haemost*, 2008. 6(8): p. 1385-92.
- [4]. Fernández de Arriba A, et al. Inhibition of cyclooxygenase-2 expression by 4-trifluoromethyl derivatives of salicylate, triflusal, and its deacetylated metabolite, 2-hydroxy-4-trifluoromethylbenzoic acid. *Mol Pharmacol.* 1999 Apr;55(4):753-60.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA