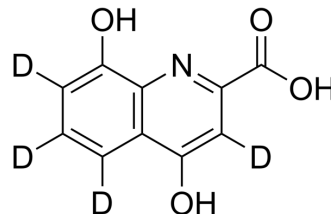


Xanthurenic acid-d₄

Cat. No.:	HY-W014666S
CAS No.:	1329611-28-0
Molecular Formula:	C ₁₀ H ₃ D ₄ NO ₄
Molecular Weight:	209.19
Target:	Apoptosis; mGluR; Endogenous Metabolite
Pathway:	Apoptosis; GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



BIOLOGICAL ACTIVITY

Description	Xanthurenic acid-d ₄ is the deuterium labeled Xanthurenic acid[1]. Xanthurenic acid is a putative endogenous Group II metabotropic glutamate receptor agonist, on sensory transmission in the thalamus[2].
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 Feb;53(2):211-216.
- [2]. Copeland CS, et al. Actions of Xanthurenic acid, a putative endogenous Group II metabotropic glutamate receptor agonist, on sensory transmission in the thalamus. *Neuropharmacology*. 2013 Mar;66:133-42.

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

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