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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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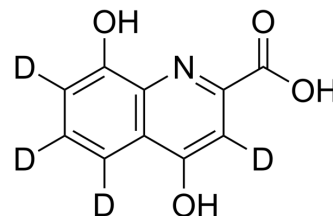
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Xanthurenic acid-d₄

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)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 8.93 mg/mL (42.69 mM); ultrasonic and warming and heat to 60°C)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		4.7803 mL	23.9017 mL	47.8034 mL
	5 mM		0.9561 mL	4.7803 mL	9.5607 mL
	10 mM		0.4780 mL	2.3902 mL	4.7803 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Xanthurenic acid-d₄ 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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