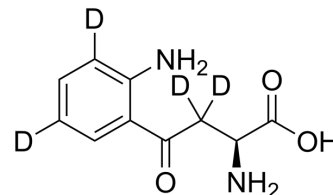


L-Kynurenine-d₄

Cat. No.:	HY-104026S		
CAS No.:	2672568-86-2		
Molecular Formula:	C ₁₀ H ₈ D ₄ N ₂ O ₃		
Molecular Weight:	212.24		
Target:	Aryl Hydrocarbon Receptor; Endogenous Metabolite		
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	L-Kynurenine-d ₄ is the deuterium labeled L-Kynurenine. L-Kynurenine is a metabolite of the amino acid L-tryptophan. L-Kynurenine is an aryl hydrocarbon receptor agonist[1][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;53(2):211-216.
- [2]. Moyer BJ, et al. Inhibition of the aryl hydrocarbon receptor prevents Western diet-induced obesity. Model for AHR activation by kynurenine via oxidized-LDL, TLR2/4, TGFβ, and IDO1. *Toxicol Appl Pharmacol.* 2016 Jun 1;300:13-24.
- [3]. Sakakibara K, et al. Kynurenine causes vasodilation and hypotension induced by activation of KCNQ-encoded voltage-dependent K(+) channels. *J Pharmacol Sci.* 2015 Sep;129(1):31-7.
- [4]. Nozaki K, et al. Neuroprotective effects of L-kynurenine on hypoxia-ischemia and NMDA lesions in neonatal rats. *J Cereb Blood Flow Metab.* 1992 May;12(3):400-7.

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

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