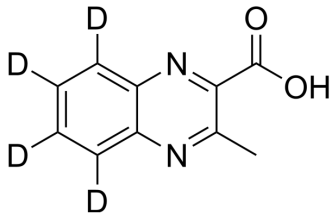
3-Methyl-2-quinoxalinecarboxylic acid-d_4

Cat. No.:	HY-W016099S
CAS No.:	2244217-93-2
Molecular Formula:	$C_{10}H_4D_4N_2O_2$
Molecular Weight:	192.21
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	3-Methyl-2-quinoxalinecarboxylic acid-d_4 is the deuterium labeled 3-Methyl-2-quinoxalinecarboxylic acid. 3-Methyl-2-quinoxalinecarboxylic acid (MQCA), an important N-oxide reductive metabolite of Quinocetone or Olaquindox, potently inhibits the growth of Chang liver cells through S phase arrest of the cell cycle[1].
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]. Keyu Zhang , et al. Cytotoxicity and Genotoxicity of 1,4-bisdesoxyquinocetone, 3-methylquinoxaline-2-carboxylic Acid (MQCA) in Human Hepatocytes. Res Vet Sci. 2012 Dec;93(3):1393-401.

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