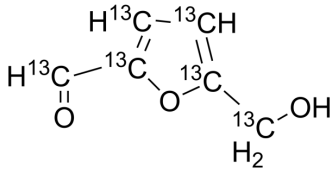
5-Hydroxymethylfurfural-$^{13}C_6$

Cat. No.:	HY-Y0051S
CAS No.:	1219193-98-2
Molecular Formula:	$^{13}C_6H_6O_3$
Molecular Weight:	132.07
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	5-Hydroxymethylfurfural-$^{13}C_6$ (2-Hydroxymethyl-5-furfural-$^{13}C_6$; 2-Formyl-5-hydroxymethylfuran-$^{13}C_6$) is a ^{13}C labeled 5-Hydroxymethylfurfural (HY-Y0051). 5-Hydroxymethylfurfural (2-Hydroxymethyl-5-furfural), derived from Cornus officinalis, inhibits yeast growth and fermentation as stressors.
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]. Iwaki A, et al. Biomass conversion inhibitors furfural and 5-hydroxymethylfurfural induce formation of messenger RNP granules and attenuate translation activity in Saccharomyces cerevisiae. Appl Environ Microbiol. 2013 Mar;79(5):1661-7.

[2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-246.

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