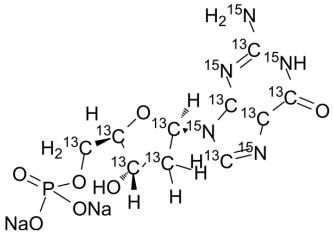
2'-Deoxyguanosine 5'-monophosphate-$^{13}C_{10}$,$^{15}N_5$ disodium

Cat. No.:	HY-W013159S
Molecular Formula:	$^{13}C_{10}H_{12}{}^{15}N_5Na_2O_7P$
Molecular Weight:	406.08
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	2'-Deoxyguanosine 5'-monophosphate-$^{13}C_{10}$,$^{15}N_5$ (disodium) is the ^{13}C and ^{15}N labeled 2'-Deoxyguanosine 5'-monophosphate disodium[1]. 2'-Deoxyguanosine 5'-monophosphate disodium (5′-dGMP disodium) is a mononucleotide having guanine as the nucleobase. 2'-Deoxyguanosine 5'-monophosphate disodium is a nucleic acid guanosine triphosphate (GTP) derivative[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]. M Paula Denofrio, et al. The photosensitizing activity of lumazine using 2'-deoxyguanosine 5'-monophosphate and HeLa cells as targets. Photochem Photobiol Sci. 2009 Nov;8(11):1539-49.

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