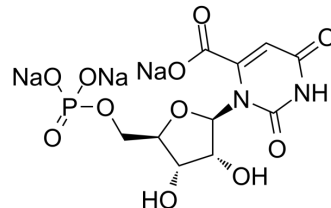


Orotidine 5'-monophosphate trisodium

Cat. No.:	HY-N8060A
CAS No.:	68244-58-6
Molecular Formula:	C ₁₀ H ₁₀ N ₂ Na ₃ O ₁₁ P
Molecular Weight:	434.14
Target:	Endogenous Metabolite; DNA/RNA Synthesis
Pathway:	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage
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	Orotidine 5'-monophosphate trisodium is a pyrimidine nucleotide. Orotidine 5'-monophosphate trisodium is synthesized via the de novo synthesis pathway for DNA synthesis in a large number of microorganisms including <i>M. tuberculosis</i> , <i>S. cerevisiae</i> , <i>S. typhimurium</i> and <i>P. falciparum</i> to name a few. The synthesis of orotidine 5'-monophosphate trisodium uses phosphoribosyl pyrophosphate (PRPP) and orotic acid (OA) as the substrates catalyzed by orotate phosphoribosyltransferase (OPRT) ^[1] .
IC₅₀ & Target	Human Endogenous Metabolite

REFERENCES

[1]. Subrahmanyeswara Rao NN, et al. QM/MM reveals the sequence of substrate binding during OPRT action. *Comput Biol Chem.* 2018 Jun;74:31-38.

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

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