
Product Data Sheet

Product Name: Uridine 5'-monophosphate disodium salt

Cat. No.: GC37865

Chemical Properties

Cas. No. 3387-36-8

SMILES O=C(N1)C=CN(C1=O)[C@H]2[C@H](O)[C@H](O)[C@H](O2)COP(O[Na])(O[Na])=OFormula $C_9H_{11}N_2Na_2O_9P$ M.Wt 368.14Solubility Water: ≥ 50 mg/mL (135.82 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Uridine-5'-monophosphate is a ribonucleotide.¹ It is formed *via* decarboxylation of orotidine-5'-monophosphate (5'-OMP) by OMP decarboxylase. Uridine-5'-monophosphate is further phosphorylated by uridine-5'-monophosphate-CMP kinase to form UDP and UTP during nucleic acid biosynthesis. Formulations containing uridine-5'-monophosphate have been used as dietary supplements.

1. Berg, J.M., Tymoczko, J.L., and Stryer, L. Nucleotide biosynthesis *Biochemistry* (2002)

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

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