
Product Data Sheet

Product Name: 5,6-Dihydro-UTP

Cat. No.: GB20132

Chemical Properties

Cas. No.

Formula $C_9H_{17}N_2O_{15}P_3$ (free acid) M.Wt 486.16 (free acid)

Solubility Storage Store at $-20^{\circ}C$ or below

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

5,6-Dihydro-UTP is a uridine triphosphate (UTP) derivative with a methyl substitution at the 5-position and a dihydro modification at the 5,6-position. As a nucleotide analog, 5,6-Dihydro-UTP acts as a ligand, interacting with corresponding nucleotide-related molecules, thereby participating in the regulation of nucleotide receptor-mediated signal transduction. In biomedical research, 5,6-Dihydro-UTP is commonly used to investigate the activation mechanisms of pyrimidine nucleotide receptors, assess the substrate specificity of nucleotide-associated enzymes, and elucidate receptor-mediated cellular signaling pathways.

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

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