DATA SHEET

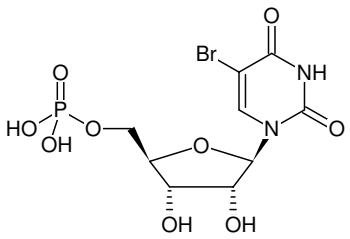
Jena Bioscience

5-Bromo-UMP

(5Br-UMP)

5-Bromo-uridine-5'-monophosphate, Sodium salt

Cat. No.	Amount
NU-135S	100 µl (10 mM)
NU-135L	5 x 100 µl (10 mM)



Structural formula of 5-Bromo-UMP

For general laboratory use.

Shipping: shipped on gel packs

Storage Conditions: store at -20 °C

Short term exposure (up to 1 week cumulative) to ambient temperature possible.

Shelf Life: 12 months after date of delivery

Molecular Formula: $C_9H_{12}BrN_2O_9P$ (free acid)

Molecular Weight: 403.08 g/mol (free acid)

Exact Mass: 401.95 g/mol (free acid)

CAS#: 2149-79-3

Purity: ≥ 95 % (HPLC)

Form: solution in water

Color: colorless to slightly yellow

Concentration: 10 mM - 11 mM

pH: 7.5 ±0.5

Spectroscopic Properties: λ_{max} 278 nm, ε 9.7 L $mmol^{-1}$ cm^{-1} (Tris-HCl pH 7.5)

Selected References:

Labesse *et al.* (2011) Structural and functional characterization of the Mycobacterium tuberculosis uridine monophosphate kinase: insights into the allosteric regulation. *Nucleic Acids Res.* **39 (8)**:3458.

Gilles *et al.* (2007) Regulatory Mechanisms Differ in UMP Kinases from Gram-negative and Gram-positive Bacteria. *J. Biol. Chem.* **282 (10)**:7242.

Kwon *et al.* (1999) Bipartite modular structure of intrinsic, RNA hairpin-independent termination signal for phage RNA polymerases. *J. Biol. Chem.* **274 (41)**:29149.

Tourneux *et al.* (1998) Substitution of an alanine residue for glycine 146 in TMP kinase from Escherichia coli is responsible for bacterial hypersensitivity to bromodeoxyuridine. *J. Bacteriol.* **180 (16)**:4291.