DATA SHEET

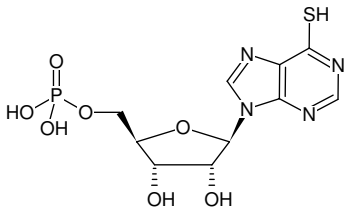
Jena Bioscience

6-Mercaptopurine-riboside-5'-monophosphate

6-Thio-Inosine-5'-monophosphate

6-Mercaptopurine-riboside-5'-monophosphate, Sodium salt

Cat. No.	Amount
NU-1148S	100 µl (10 mM)
NU-1148L	5 x 100 µl (10 mM)



Structural formula of 6-Mercaptopurine-riboside-5'-monophosphate

For research use only!

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: $C_{10}H_{13}N_4O_7PS$ (free acid)

Molecular Weight: 364.26 g/mol (free acid)

Exact Mass: 364.02 g/mol (free acid)

CAS#: 53-83-8

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} 322 nm, ε 27.3 L $mmol^{-1}$ cm^{-1} (Tris-HCl pH 7.5)

Selected References:

Neurath *et al.* (2005) 6-Thioguanosine Diphosphate and Triphosphate Levels in Red Blood Cells and Response to Azathioprine Therapy in Crohn?s Disease. *Clinical Gastroenterology and Hepatology* **3 (10)**: 1007.

Wielinga *et al.* (2002)Thiopurine metabolism and identification of the thiopurine metabolites transported by MRP4 and MRP5 overexpressed in human embryonic kidney cells. *Mol Pharmacol.* **62 (6)**:1321.

Szabados *et al.* (1994) 5-Aminoimidazole-4-carboxamide ribotide transformylase-IMP cyclohydrolase from human CCRFCEM leukemia cells: purification, pH dependence, and inhibitors. *Biochemistry* **33 (47)**:14237.

Stet *et al.* (1993) A biochemical basis for synergism of 6-mercaptopurine and mycophenolic acid in Molt F4, a human malignant T-lymphoblastic cell line. *Biochim Biophys Acta.* **1180 (3)**:277.

Drake *et al.* (1982) Metabolism and mechanisms of action of 9-(tetrahydro-2-furyl)-6-mercaptopurine in Chinese hamster ovary cells. *Chem Biol Interact.* **41 (1)**:105.