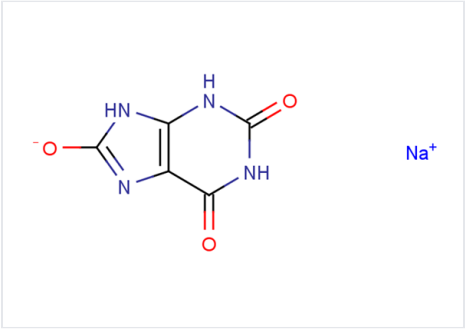
Uric acid sodium

PRODUCT OVERVIEW

Product Name	Uric acid sodium, Biochemical
Full Product Name	Uric acid sodium
Preparation and Storage	Powder: -20 degree C for 3 years | In solvent: -80 degree C for 1 year
Molecular Weight	190.09
SMILES	[Na+].[O-]c1nc2c([nH]1)[nH]c(=O)[nH]c2=O
Formula	C5H3N4NaO3
Solubility	DMSO: 2.8 mg/mL (14.8 mM) ultrasonic and warming and adjust pH to 4 with HCl and heat to 60 degree C (< 1 mg/ml refers to the product slightly soluble or insoluble)
CAS Number	1198-77-2
In_vitro	Uric acid, when administered at a concentration of 400uM for 48 hours, offers protection to Caco-2 cells by preventing indomethacin-induced lipid peroxidation [2]. Furthermore, co-treatment of cells with indomethacin and uric acid sodium (200uM indomethacin plus 400uM uric acid; 24 hours) significantly reduces reactive oxygen species (ROS) levels compared to cells treated with indomethacin alone. Additionally, cell viability in Caco-2 cells exposed to both indomethacin and uric acid sodium (200uM indomethacin plus 400uM uric acid; 24 hours) is higher compared to cells treated solely with indomethacin. The protective effect of uric acid sodium on indomethacin-induced changes in intestinal cells is attributed to its antioxidant activity.
In_vivo	Oral treatment of uric acid sodium at a dosage of 250 mg/kg has a beneficial effect on indomethacin-induced enteropathy. It ameliorates the enteropathy caused by indomethacin. Oral treatment of uric acid sodium leads to a reduction in ROS accumulation in the ileum in a mouse model of indomethacin-induced enteropathy [2].
Related Product Information for Uric acid sodium biochemical	Uric acid sodium, scavengers of oxygen radicals, is a potent and common antioxidant that helps maintain stable blood pressure and resist oxidative stress. Uric acid sodium, which removes reactive oxygen species (ROS) such as singlet oxygen and peroxynitrite, has an Inhibitory effect on lipid peroxidation and is associated with the pathogenesis of gout joint disease and the formation of calcium oxalate stones.
Other Notes	Small volumes of Uric acid sodium biochemical vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Uric acid sodium purchase	MBS5802829 is a biochemical targeting Uric acid sodium.



Structure of Uric acid sodium biochemical

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

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Online datasheet: https://www.mybiosource.com/biochemical/uric-acid-sodium/5802829