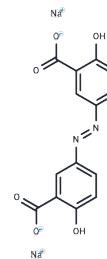


## Olsalazine disodium

## Chemical Properties

CAS No. :	6054-98-4
Formula:	C <sub>14</sub> H <sub>8</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>6</sub>
Molecular Weight:	346.2
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Olsalazine disodium (Dipentum) is bioconverted to 5-aminosalicylic acid (5-ASA) in the colon and has anti-inflammatory activity in ulcerative colitis.
Targets(IC50)	Antibacterial,Antibiotic,COX
In vitro	In nu/nu CD-1 mice with experimental colitis induced by sodium dextran sulfate, daily treatment with Olsalazine (50 mg/kg) led to the bacterial azoreductase cleavage of azo bonds, releasing mesalazine, which is capable of treating colitis.
In vivo	In isolated rat ileal and guinea pig ileal mucosa, Olsalazine (less than 2.89 mM) increases the secretion of sodium and chloride ions, while decreasing the absorption of chloride ions. In isolated rat colonic tissues, Olsalazine (less than 11.5 mM) reduces net sodium levels and chloride ion absorption in a dose-dependent manner, and at high concentrations (11.5 mM), it increases potassium secretion. Moreover, in isolated rat jejunum, Olsalazine inhibits the absorption of glucose and lactose. In human intestinal macrophages (IC <sub>50</sub> =0.39 mM), Olsalazine acts as an effective inhibitor of the chemotaxis of LTB <sub>4</sub> .

## Solubility Information

Solubility	H <sub>2</sub> O: 38 mg/mL (109.76 mM),Sonication is recommended. DMSO: 50 mg/mL (144.43 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8885 mL	14.4425 mL	28.885 mL
5 mM	0.5777 mL	2.8885 mL	5.777 mL
10 mM	0.2889 mL	1.4443 mL	2.8885 mL
50 mM	0.0578 mL	0.2889 mL	0.5777 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

### Reference

- Wadworth AN, et al. *Drugs*, 1991, 41(4), 647-664.  
Nielsen OH, et al. *Aliment Pharmacol Ther*, 1988, 2(3), 203-211.  
Gionchetti P, et al. *Dig Dis Sci*, 1991, 36(2), 174-178.  
Nielsen OH, et al. *Dig Dis Sci*, 1987, 32(6), 577-582.  
Hawkey CJ, et al. *Dig Dis Sci*, 1985, 30(12), 1161-1165.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

**This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use**

Tel: 781-999-4286    E\_mail: [info@targetmol.com](mailto:info@targetmol.com)    Address: 36 Washington Street, Wellesley Hills, MA 02481