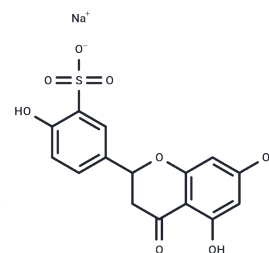


## NARS-3'

## Chemical Properties

CAS No. :	2702589-46-4
Formula:	C15H11NaO8S
Molecular Weight:	374.30
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	NARS-3' is an inhibitor of xanthine oxidase (XO), with an IC50 value of 21.01 μM. It competitively inhibits XO activity, thereby reducing uric acid production. Additionally, NARS-3' helps mitigate renal damage and is applicable in hyperuricemia research.
Targets(IC50)	Xanthine Oxidase
In vitro	NARS-3' (0-100 μM) exhibits dose-dependent inhibition of XO activity. At concentrations of 0-40 μM, NARS-3' can bind to the active site of XO, competing with the xanthine substrate. It may also induce conformational changes in XO.
In vivo	NARS-3' (25-100 mg/kg; oral administration; once daily; for one week) effectively inhibits serum XO activity induced by Potassium oxonate (PO) in hyperuricemic mice, reduces serum uric acid (UA) levels, and offers significant renal protection.'

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6717 mL	13.3583 mL	26.7165 mL
5 mM	0.5343 mL	2.6717 mL	5.3433 mL
10 mM	0.2672 mL	1.3358 mL	2.6717 mL
50 mM	0.0534 mL	0.2672 mL	0.5343 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481