

## Norbixin hydrate

## Chemical Properties

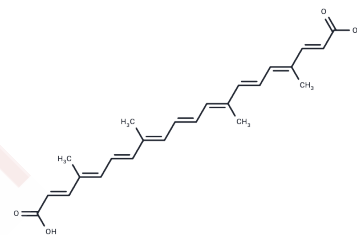
CAS No. :

Formula: C<sub>24</sub>H<sub>28</sub>O<sub>4</sub>.XH<sub>2</sub>O

Molecular Weight: 380.48

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	Norbixin, a carotenoid found in <i>B. orellana</i> , exhibits various biological activities including binding to the peroxisome proliferator-activated receptor $\gamma$ (PPAR $\gamma$ ) with a $K_i$ of 1.15 $\mu$ M in a cell-free assay. At a dosage of 47.7 mg/kg, norbixin effectively alleviates hyperglycemia, hyperinsulinemia, and insulin resistance, in addition to reducing serum lipid levels, cardiac thiobarbituric acid reactive substances (TBARS), and glutathione (GSH) in rat cardio-metabolic syndrome models. It also lowers serum levels of oxidized LDL, aortic protein oxidation, and the atherosclerotic area in a rabbit cholesterol-induced atherosclerosis model. Furthermore, norbixin, administered at 0.1 and 1 mg/kg per day, minimizes mercury-induced DNA damage in rat hepatocytes and leukocytes and prevents photoreceptor degeneration in an <i>Abca4</i> <sup>-/-</sup> <i>Rdh8</i> <sup>-/-</sup> mouse model of age-related macular degeneration (AMD).
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: Slightly soluble Methanol: Slightly soluble Ethanol: Slightly soluble THF: Slightly soluble ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.6283 mL	13.1413 mL	26.2826 mL
5 mM	0.5257 mL	2.6283 mL	5.2565 mL
10 mM	0.2628 mL	1.3141 mL	2.6283 mL
50 mM	0.0526 mL	0.2628 mL	0.5257 mL

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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.

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