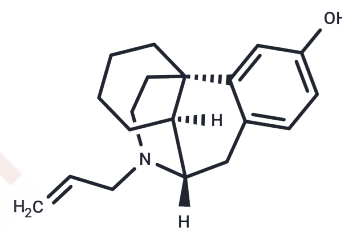


## Dextrallorphan

## Chemical Properties

CAS No. :	5822-43-5
Formula:	C <sub>19</sub> H <sub>25</sub> NO
Molecular Weight:	283.41
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	Dextrallorphan (DXA) is a chemical of the morphinan class that is used in scientific research. It acts as a $\sigma_1$ receptor agonist and NMDA receptor antagonist. It has no significant affinity for the $\sigma_2$ , $\mu$ -opioid, or $\delta$ -opioid receptor, or for the serotonin or norepinephrine transporter. As an NMDA receptor antagonist, in vivo, it is approximately twice as potent as dextromethorphan, and five-fold less potent than dextrorphan. Dextrallorphan was found to have a half maximal inhibitory concentration (IC <sub>50</sub> ) for binding to the pituitary and brain receptor of $10,000 \pm 1000$ nM and $10,000 \pm 1500$ nM, respectively. While its stereoisomer, levallorphan, had a 10,000 times more potent dose, thus proving that binding to these receptors is stereospecific.
Targets(IC <sub>50</sub> )	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5285 mL	17.6423 mL	35.2846 mL
5 mM	0.7057 mL	3.5285 mL	7.0569 mL
10 mM	0.3528 mL	1.7642 mL	3.5285 mL
50 mM	0.0706 mL	0.3528 mL	0.7057 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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