

## (R)-Reticuline

**Chemical Properties**

CAS No.:	3968-19-2
Formula:	C <sub>19</sub> H <sub>23</sub> NO <sub>4</sub>
Molecular Weight:	329.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	(R)-Reticuline is the biosynthetic precursor of the morphinan alkaloids.
Targets(IC <sub>50</sub> )	NADPH-oxidase: None
In vitro	A cytosolic NADPH <sub>2</sub> dependent enzyme which reduces stereospecifically 1,2-dehydroreticuline to yield (R)-Reticuline, the biosynthetic precursor of the morphinan alkaloids, has been discovered, purified to homogeneity, and characterized from seedlings.

**Solubility Information**

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.036 mL	15.179 mL	30.358 mL
5 mM	0.607 mL	3.036 mL	6.072 mL
10 mM	0.304 mL	1.518 mL	3.036 mL
50 mM	0.061 mL	0.304 mL	0.607 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Enzymic formation of (R)-reticuline from 1,2-dehydroreticuline in the opium poppy plant. Tetrahedron Letters, 1990 ,31 (34) :4855-8.

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