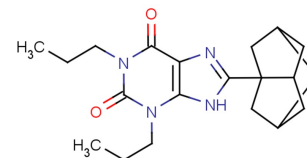


## Rolofylline

## Chemical Properties

CAS No.:	136199-02-5
Formula:	C <sub>20</sub> H <sub>28</sub> N <sub>4</sub> O <sub>2</sub>
Molecular Weight:	356.46
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Rolofylline is an effective and selective adenosine A1 receptor antagonist. Rolofylline is metabolized primarily to the pharmacologically active M1-trans and M1-cis metabolites by cytochrome P450.
Targets(IC <sub>50</sub> )	Others: None

## 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	2.805 mL	14.027 mL	28.054 mL
5 mM	0.561 mL	2.805 mL	5.611 mL
10 mM	0.281 mL	1.403 mL	2.805 mL
50 mM	0.056 mL	0.281 mL	0.561 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. Stroh M, et al. Simultaneous pharmacokinetic model for rolofylline and both M1-trans and M1-cis metabolites. AAPS J. 2013 Apr;15(2):498-504.
2. Dennissen FJ, et al. Adenosine A1 receptor antagonist rolofylline alleviates axonopathy caused by human Tau ΔK280. Proc Natl Acad Sci U S A. 2016 Oct 11;113(41):11597-11602. Epub 2016 Sep 26.

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