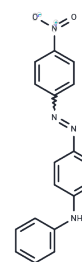


DO1

## Chemical Properties

CAS No. : 2581-69-3  
 Formula: C<sub>18</sub>H<sub>14</sub>N<sub>4</sub>O<sub>2</sub>  
 Molecular Weight: 318.33  
 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	DO1 (Disperse Orange 1) is an anti-amyloid agent which potently delays both seeded and non-seeded A $\beta$ 42 polymerization at substoichiometric concentrations
Targets(IC50)	Others
In vivo	DO1 disrupts preformed fibrillar assemblies of synthetic A $\beta$ 42 peptides and decreases the seeding activity of A $\beta$ aggregates from brain extracts of AD transgenic mice. DO1 also reduced the size and abundance of diffuse A $\beta$ plaques and decreased neuroinflammation-related gene expression changes in brains of 5xFAD transgenic mice[1].

## Solubility Information

Solubility	DMSO: 3.19 mg/mL (10.02 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1414 mL	15.707 mL	31.4139 mL
5 mM	0.6283 mL	3.1414 mL	6.2828 mL
10 mM	0.3141 mL	1.5707 mL	3.1414 mL
50 mM	0.0628 mL	0.3141 mL	0.6283 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.

Reference

Boeddrich A, Babila JT, Wiglenda T, et al. The Anti-amyloid Compound DO1 Decreases Plaque Pathology and Neuroinflammation-Related Expression Changes in 5xFAD Transgenic Mice[J]. Cell Chem Biol. 2019 Jan 17 ;26(1): 109-120.e7.

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