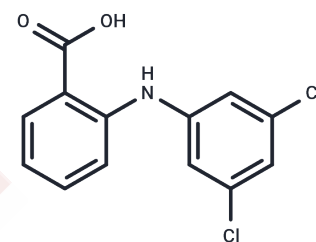


Dichlorophenyl-ABA

Chemical Properties

CAS No. :	18201-65-5
Formula:	C13H9Cl2NO2
Molecular Weight:	282.12
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	Dichlorophenyl-ABA is a transthyretin (TTR) amyloid fibril formation inhibitor that effectively suppresses pathological protein aggregation, inhibiting more than 80% of aggregate formation in TTR L55P-expressing cells, Dichlorophenyl-ABA is widely employed in amyloidosis research to study TTR stabilization, aggregation mechanisms, and therapeutic intervention strategies.
Targets(IC50)	Others
In vitro	Dichlorophenyl-ABA can prevent L55P aggregate formation in the conditioned medium. Dichlorophenyl-ABA is the best stabilizers of V30M tetramers in plasma from carriers of this mutant, and clearly inhibit aggregation in the cellular system. With regard to the ultrastructural analysis, Dichlorophenyl-ABA does not show an inhibitory effect as high as DFPB and benzoxazole. Therefore Dichlorophenyl-ABA is promising for the treatment of valine at position 30 (V30M)-associated familial amyloidotic polyneuropathy (FAP). However, it needs to undergo further stages of drug development to overcome its toxicity.

Solubility Information

Solubility	DMSO: 80 mg/mL (283.57 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	3.5446 mL	17.723 mL	35.4459 mL
5 mM	0.7089 mL	3.5446 mL	7.0892 mL
10 mM	0.3545 mL	1.7723 mL	3.5446 mL
50 mM	0.0709 mL	0.3545 mL	0.7089 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

Cardoso I, et al. Comparative in vitro and ex vivo activities of selected inhibitors of transthyretin aggregation: relevance in drug design. *Biochem J.* 2007 Nov 15;408(1):131-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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