Dichlorophenyl-ABA

Cat. No.: HY-113950

CAS No.: 18201-65-5

Molecular Formula: $C_{13}H_9Cl_2NO_2$

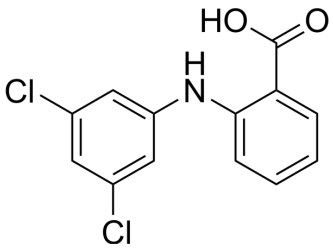
Molecular Weight: 282.12

Target: Transthyretin (TTR)

Pathway: Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (354.46 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.5446 mL	17.7230 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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Dichlorophenyl-ABA is an inhibitor of transthyretin (TTR) amyloid fibril formation, inhibiting aggregate formation in more than 80% in TTR L55P-expressing cells[1].

IC_{50} & Target

Transthyretin (TTR) amyloid fibril formation

In Vitro

Dichlorophenyl-ABA (DCPA) is able to prevent L55P aggregate formation in the conditioned medium. With regard to the ultrastructural analysis, Dichlorophenyl-ABA does not show an inhibitory effect as high as DFPB and benzoxazole, indicating that the Y78F mutant may not be as sensitive to this drug as TTR L55P and V30M are[1].

Dichlorophenyl-ABA is the best stabilizers of V30M tetramers in plasma from carriers of this mutant, and clearly inhibit aggregation in the cellular system. Therefore Dichlorophenyl-ABA is promising for the treatment of valine at position 30 (V30M)-associated familial amyloidotic polyneuropathy (FAP) but need to undergo further stages of drug development to overcome their toxicity[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

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