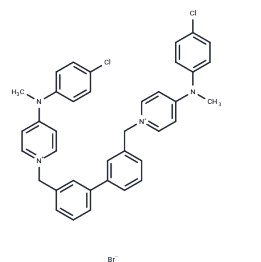


ACG548B

## Chemical Properties

CAS No. : 795316-16-4  
 Formula: C<sub>38</sub>H<sub>34</sub>Br<sub>2</sub>Cl<sub>2</sub>N<sub>4</sub>  
 Molecular Weight: 777.43  
 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	ACG548B (compound 24) is a selective dual inhibitor of AChE and BChE with IC <sub>50</sub> values of 1.78 and 0.496 μM, respectively, and can be used in research on myasthenia gravis and neurological disorders.
Targets(IC50)	AChR,Cholinesterase (ChE)
In vitro	ACG548B yields IC <sub>50</sub> of 0.496 uM for BChE and 1.78 uM for AChE via dual-site binding mechanism [1].

## Solubility Information

Solubility	DMSO: 40 mg/mL (51.45 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	1.2863 mL	6.4314 mL	12.8629 mL
5 mM	0.2573 mL	1.2863 mL	2.5726 mL
10 mM	0.1286 mL	0.6431 mL	1.2863 mL
50 mM	0.0257 mL	0.1286 mL	0.2573 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

Abd El-Aleam RH, et al. Design and synthesis of novel benzimidazole derivatives as potential *Pseudomonas aeruginosa* anti-biofilm agents inhibiting LasR: Evidence from comprehensive molecular dynamics simulation and in vitro investigation. *Eur J Med Chem*.

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