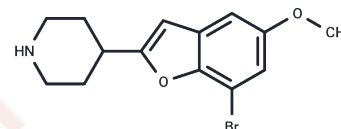


## Brofaromine

## Chemical Properties

CAS No. : 63638-91-5  
 Formula: C<sub>14</sub>H<sub>16</sub>BrNO<sub>2</sub>  
 Molecular Weight: 310.19  
 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                | Brofaromine (CGP 11305A) is an MAO inhibitor (IC <sub>50</sub> : 0.2 μM for MAO-A).  |
| Targets(IC <sub>50</sub> ) | MAO, Monoamine Oxidase   |
| In vitro                   | To assess whether the protective effect is related to MAO-A inhibition or another mechanism, the activity of Brofaromine on MAO-A in cultured cortical cells is determined. The cells exhibit significant MAO-A activity, which Brofaromine inhibits in a concentration-dependent manner (IC <sub>50</sub> : 0.19 μM; Hill coefficient: 0.96), with nearly complete inhibition at 10 μM. The IC <sub>50</sub> range of Brofaromine is 0.01 μM to 0.1 μM. |

## Solubility Information

|                     |  |
|---------------------|--|
| Solubility          | DMSO: 250 mg/mL (805.96 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble)   |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween-80+45% Saline: 5 mg/mL (16.12 mM), Sonication is recommended.<br><i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

### Preparing Stock Solutions

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|       | <b>1mg</b> | <b>5mg</b> | <b>10mg</b> |
|-------|------------|------------|-------------|
| 1 mM  | 3.2238 mL  | 16.1192 mL | 32.2383 mL  |
| 5 mM  | 0.6448 mL  | 3.2238 mL  | 6.4477 mL   |
| 10 mM | 0.3224 mL  | 1.6119 mL  | 3.2238 mL   |
| 50 mM | 0.0645 mL  | 0.3224 mL  | 0.6448 mL   |

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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

Boland A, et al. Pirlindole and dehydropirlindole protect rat cultured neuronal cells against oxidative stress-induced cell death through a mechanism unrelated to MAO-A inhibition. *Br J Pharmacol.* 2002 Feb;135(3):713-20.

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