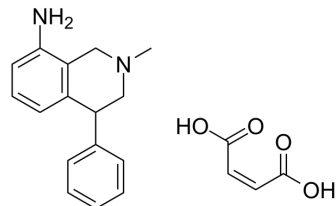


## Nomifensine maleate

<b>Cat. No.:</b>	HY-B1110A
<b>CAS No.:</b>	32795-47-4
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>22</sub> N <sub>2</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	354.4
<b>Target:</b>	Dopamine Receptor
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 80 mg/mL (225.73 mM)  
 H<sub>2</sub>O : 2.2 mg/mL (6.21 mM; Need ultrasonic)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.8217 mL	14.1084 mL	28.2167 mL
	5 mM	0.5643 mL	2.8217 mL	5.6433 mL
	10 mM	0.2822 mL	1.4108 mL	2.8217 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.75 mg/mL (7.76 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.75 mg/mL (7.76 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.75 mg/mL (7.76 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Nomifensine maleate is a selective inhibitor of dopamine uptake, used in adult attention deficit disorder.

### CUSTOMER VALIDATION

- Glia. 2017 Aug;65(8):1251-1263.

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- Commun Biol. 2021 Sep 13;4(1):1065.
  - Biotechnol Bioeng. 2021 Sep 3.
  - bioRxiv. 2023 Aug 3.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA