

## **Product** Data Sheet

## **CHBO4**

 Cat. No.:
 HY-155137

 CAS No.:
 98991-32-3

 Molecular Formula:
 C<sub>15</sub>H<sub>10</sub>BrFO

Molecular Weight: 305.14

Target: Monoamine Oxidase; Reactive Oxygen Species

Pathway: Neuronal Signaling; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-кВ

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

## **BIOLOGICAL ACTIVITY**

Description	CHBO4 is a potent, reversible, competitive, and selective hMAO-B inhibitor with an IC <sub>50</sub> value of 0.031 $\mu$ M in CHBO subseries and an K <sub>i</sub> value of 0.010 $\pm$ 0.005 $\mu$ M. CHBO4 reduce cell damage by scavenging intracellular reactive oxygen species (ROS). CHBO4 can be used for Parkinson's Disease (PD) research <sup>[1]</sup> .	
IC <sub>50</sub> & Target	hMAO-B	hMAO-B

 $0.031~\mu\text{M}~(IC_{50})$   $0.010~\mu\text{M}~(Ki)$ 

CHBO4 (10-500  $\mu$ g/mL, 48 h) is biologically safe in Vero cells<sup>[1]</sup>. CHBO4 (128.8  $\mu$ g/mL, 10 min) can reduce ROS generation in Vero cells<sup>[1]</sup>.

cribo4 (120.0 μg/iiiL, 10 iiiii) cair reduce NO3 generation iii vero cetts- -.

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

Cell Cytotoxicity Assay<sup>[1]</sup>

Cell Line:	Vero cells	
Concentration:	10-500 μg/mL	
Incubation Time:	48 h	
Result:	Reduced cell viability percentage with the IC $_{50}$ value of 128.8 µg/mL Decreased cellular density, cellular shrinkage, and blebbing exposed to concentrations (100-300 µg/mL) in Vero cells	

## **REFERENCES**

In Vitro

[1]. Thomas Parambi DG, et al. Halogenated class of oximes as a new class of monoamine oxidase-B inhibitors for the treatment of Parkinson's disease: Synthesis, biochemistry, and molecular dynamics study. Comput Biol Chem. 2023 Aug;105:107899.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$ 

Tel: 609-228-6898 Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

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

Page 2 of 2 www.MedChemExpress.com