

(2E)-OBAA

Cat. No.:	HY-101015
CAS No.:	221632-26-4
Molecular Formula:	C ₂₈ H ₄₄ O ₃
Molecular Weight:	428.66
Target:	Phospholipase; Apoptosis
Pathway:	Metabolic Enzyme/Protease; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(2E)-OBAA is a potent phospholipase A2 (PLA2) inhibitor, with an IC ₅₀ of 70 nM. (2E)-OBAA induces apoptosis of HUVEC cells. (2E)-OBAA blocks Melittin-induced Ca ²⁺ influx in Trypanosoma brucei, with an IC ₅₀ of 0.4 μM ^{[1][2][3][4]} .
IC₅₀ & Target	PLA2 70 nM (IC ₅₀)
In Vitro	(2E)-OBAA (5.7 μM) induces apoptotic cell death of human umbilical vein endothelial cells (HUVEC). After 16 h of treatment, almost all of the cells has disintegrated into apoptotic bodies ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	(2E)-OBAA (2.5-7 mg/kg, IV) significantly and dose-dependently inhibits the immunologically induced bronchospasm in guinea pigs ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. J Y Miao, et al. Inhibitors of phospholipase promote apoptosis of human endothelial cells. *J Biochem.* 1997 Mar;121(3):612-8.
- [2]. J Eintracht, et al. Calcium entry in Trypanosoma brucei is regulated by phospholipase A2 and arachidonic acid. *Biochem J.* 1998 Dec 15;336 (Pt 3)(Pt 3):659-66.
- [3]. T Köhler, et al. Phospholipase A2 inhibition by alkylbenzoylacrylic acids. *Biochem Pharmacol.* 1992 Aug 18;44(4):805-13.
- [4]. Kethineedi VR, et al. Quantum dot-NBD-liposome luminescent probes for monitoring phospholipase A2 activity. *Anal Bioanal Chem.* 2013 Dec;405(30):9729-37.

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