

## OBAA

<b>Cat. No.:</b>	HY-101015A
<b>CAS No.:</b>	134531-42-3
<b>Molecular Formula:</b>	C <sub>28</sub> H <sub>44</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	428.65
<b>Target:</b>	Phospholipase; Apoptosis
<b>Pathway:</b>	Metabolic Enzyme/Protease; Apoptosis
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

<b>Description</b>	OBAA is a potent phospholipase A2 (PLA2) inhibitor with an IC <sub>50</sub> of 70 nM. OBAA blocks Melittin-induced Ca <sup>2+</sup> influx in <i>Trypanosoma brucei</i> with an IC <sub>50</sub> of 0.4 μM <sup>[1][2][3]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	PLA2 70 nM (IC <sub>50</sub> )
<b>In Vitro</b>	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 had disintegrated into apoptotic bodies <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	The immunologically induced bronchospasm in guinea pigs is significantly and dose-dependently inhibited by OBAA (2.5-7 mg/kg i.v.) <sup>[3]</sup> . 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.

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

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