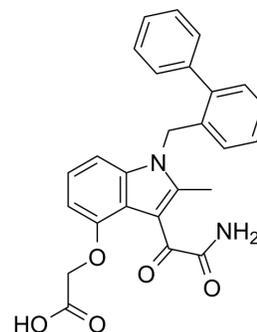


## Me-Indoxam

<b>Cat. No.:</b>	HY-125157
<b>CAS No.:</b>	172732-62-6
<b>Molecular Formula:</b>	C <sub>26</sub> H <sub>22</sub> N <sub>2</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	442.46
<b>Target:</b>	Phospholipase
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Me-Indoxam is a potent and cell-impermeable secreted phospholipase A <sub>2</sub> (sPLA <sub>2</sub> ) inhibitor <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	sPLA <sub>2</sub>
<b>In Vitro</b>	<p>Me-Indoxam shows different potencies on the various sPLA<sub>2</sub> isoforms in in vitro assays with an IC<sub>50</sub> of less than 100 nM for hGIIA, hGIIIE, and hGV; an IC<sub>50</sub> of between 200 and 600 nM for hGIB and hGX; and an IC<sub>50</sub> of greater than 2 mM for hGIID, hGIIF, hGIIL, and hGXIIA<sup>[1]</sup>.</p> <p>Me-Indoxam is able to inhibit the activity of sPLA<sub>2</sub>s only when they are secreted in the extracellular space<sup>[1]</sup>.</p> <p>Me-Indoxam (0-10 μM; 30 min) inhibits Leukotriene C<sub>4</sub> (LTC<sub>4</sub>) production from anti-IgE-stimulated primary human lung mast cells (HLMCs)<sup>[1]</sup>.</p> <p>Me-indoxam (0.01-10 M) did not affect the basal secretion of TNF-α and IL-6 from human lung macrophages (HLM).</p> <p>Preincubation (15 min, 37°C) of hGX (1 μg/mL) with various concentrations of Me-indoxam before the addition to HLM dose-dependently inhibited TNF-α and IL-6 release. The IC<sub>50</sub> values of Me-indoxam were 253±72 and 320±87 nM on TNF-α and IL-6 release, respectively<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

[1]. Triggiani M, et al. Lung mast cells are a source of secreted phospholipases A<sub>2</sub>. *J Allergy Clin Immunol*. 2009 Sep;124(3):558-65, 565.e1-3.

[2]. Granata F, et al. Activation of cytokine production by secreted phospholipase A<sub>2</sub> in human lung macrophages expressing the M-type receptor. *J Immunol*. 2005 Jan 1;174(1):464-74.

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

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