

## MK-447

**Catalog No: tcsc0018449**



### Available Sizes

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**Size:** 1mg

**Size:** 5mg

**Size:** 10mg



### Specifications

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**CAS No:**

58456-91-0

**Formula:**

$C_{11}H_{16}INO$

**Pathway:**

GPCR/G Protein

**Target:**

Prostaglandin Receptor

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Observed Molecular Weight:**

305.16

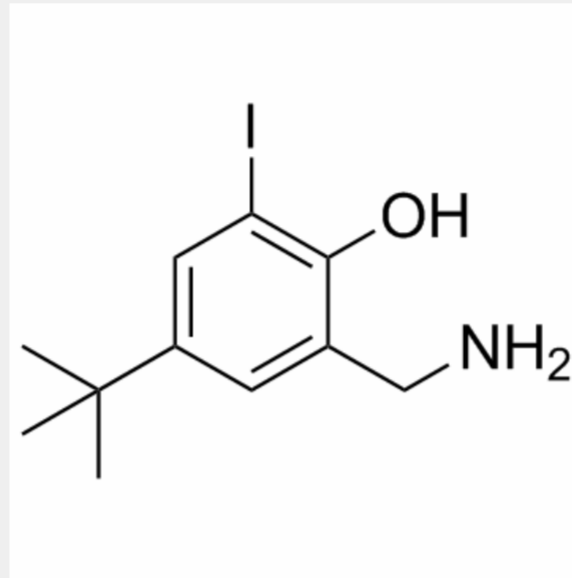
### Product Description

MK-447 is a free radical scavenger, also a nonsteroidal antiinflammatory agent, and enhances the formation of the endoperoxide,  $PGH_2$ , and other **prostaglandins**.

IC50 & Target: Prostaglandin Receptor<sup>[1][2]</sup>

**In Vitro:** MK-447 is a free radical scavenger, reduces the accumulation of the endoperoxide, PGG<sub>2</sub> and also enhances the formation of the endoperoxide, PGH<sub>2</sub>, and other prostaglandins<sup>[1]</sup>. MK-447 (100 μM) increases the amounts of prostaglandin I<sub>2</sub> (PGI<sub>2</sub>). MK-447 also accelerates endogenous PGI<sub>2</sub> generation in the isolated rat aorta<sup>[2]</sup>.

**In Vivo:** MK-447 (20 and 50 mg/kg, p.o.) blocks gastric acid secretion in the 4 hour pylorus ligated rats, but shows no effect on gastric secretion of pepsin. MK-447 (5, 10, 20 and 40 mg/kg, p.o.) dose-dependently decreases acid output in dogs<sup>[1]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!