Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

# 3-Aminobenzamide

## Catalog No: tcsc0157

### Available Sizes

**Size:** 200mg

**Size:** 500mg

### Specifications

**CAS No:**
3544-24-9

**Formula:**
$C_7H_8N_2O$

**Pathway:**
Epigenetics;Cell Cycle/DNA Damage

**Target:**
PARP;PARP

**Purity / Grade:**
>98%

**Solubility:**
H2O : ≥ 11.11 mg/mL (81.60 mM)

**Alternative Names:**
PARP-IN-1

**Observed Molecular Weight:**
136.15

## Product Description

3-Aminobenzamide is a potent inhibitor of **PARP** with **$IC_{50}$** of appr 50 nM in CHO cells, and acts as a mediator of oxidant-induced myocyte dysfunction during reperfusion.

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IC50 & Target: IC50: 50 nM (PARP)[1]

***In Vitro:*** 3-Aminobenzamide (>1 μM) causes more than 95% inhibition of PARP activity without significant cellular toxicity. INO-1001 significantly sensitizes CHO cells by blocking most of the DNA repair occurring between radiation fractions[1]. 3-Aminobenzamide significantly improves endothelial function by enhancing the acetylcholine-induced, endothelium-dependent, nitric oxide mediated vasorelaxation after exposure with 400 μM $H_2O_2$[2].

***In Vivo:*** In a *db/db* (Lepr*db/db*) mouse model, 3-Aminobenzamide ameliorates diabetes-induced albumin excretion and mesangial expansion, and also decreases diabetes-induced podocyte depletion[3]. 3-Aminobenzamide (1.6 mg/kg via intracerebral injection) prevents $NAD^+$ depletion and improves water maze performance after controlled cortical impact (CCI) in mice[4].