Web: www.taiclone.com
Tel: +886-2-2735-9682
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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].