

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

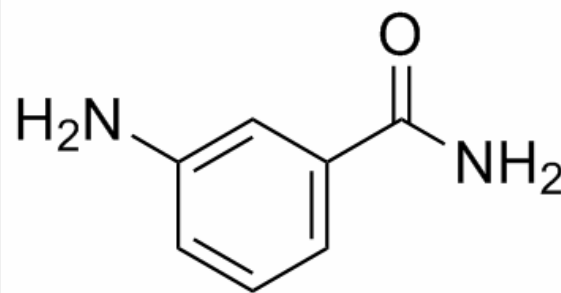
Product Description

3-Aminobenzamide is a potent inhibitor of **PARP** with **IC₅₀** of appr 50 nM in CHO cells, and acts as a mediator of oxidant-induced myocyte dysfunction during reperfusion.

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

In Vitro: 3-Aminobenzamide (>1 μ M) 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 μ M H₂O₂^[2].

In Vivo: In a *db/db* (*Leprdb/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].



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