SZABO SCANDIC

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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Benzamide

Cat. No.: HY-Z0283

CAS No.: 55-21-0

Molecular Formula: C_7H_7NO

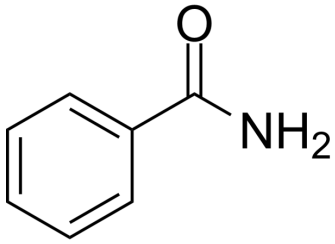
Molecular Weight: 121.14

Target: Endogenous Metabolite; PARP

Pathway: Metabolic Enzyme/Protease; Cell Cycle/DNA Damage; Epigenetics

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (825.49 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	8.2549 mL	41.2746 mL	82.5491 mL
5 mM	1.6510 mL	8.2549 mL	16.5098 mL
10 mM	0.8255 mL	4.1275 mL	8.2549 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (20.64 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (20.64 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (20.64 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Benzamide (Benzenecarboxamide) is a potent poly(ADP-ribose) polymerase (PARP) inhibitor. Benzamide has protective activity against both glutamate- and methamphetamine (METH)-induced neurotoxicity in vitro. Benzamide can attenuate the METH-induced dopamine depletions and exhibits neuroprotective activity in mice, also has no acute effect on striatal dopamine metabolism and does not reduce body temperature[1].

IC_{50} & Target

Human Endogenous Metabolite

In Vivo

Benzamide (160 mg/kg; IP, 2 injection by a 4 h interval) attenuates the METH-induced dopamine depletions[1].
Benzamide (160 mg/kg; IP, single dosage) has no acute effect on striatal dopamine metabolism and does not reduce body temperature[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	C57B1/6N mice (intraperitoneal injection of METH at 2-h intervals; 4 injections of 5 mg/kg, 4 injections of 10 mg/kg, or 2 injections of 20 mg/kg)[1]
Dosage:	160 mg/kg
Administration:	IP, 2 injection by a 4 h interval
Result:	Partially and significantly attenuated the METH-induced dopamine depletions during the different METH treatment.

Animal Model:	C57B1/6N mice[1]
Dosage:	160 mg/kg
Administration:	IP, single dosage
Result:	Had no acute effect on striatal dopamine metabolism and did not reduce body temperature.

REFERENCES

[1]. Cosi C, et al. Benzamide, an inhibitor of poly(ADP-ribose) polymerase, attenuates methamphetamine-induced dopamine neurotoxicity in the C57B1/6N mouse. Brain Res. 1996 Oct 7;735(2):343-8.

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

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