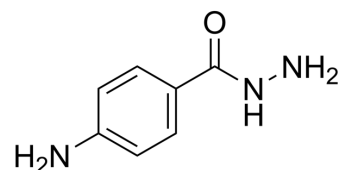


4-Aminobenzohydrazide

Cat. No.:	HY-B0880
CAS No.:	5351-17-7
Molecular Formula:	C ₇ H ₉ N ₃ O
Molecular Weight:	151.17
Target:	Glutathione Peroxidase
Pathway:	Apoptosis; Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 25 mg/mL (165.38 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	6.6151 mL	33.0753 mL	66.1507 mL
	5 mM	1.3230 mL	6.6151 mL	13.2301 mL
	10 mM	0.6615 mL	3.3075 mL	6.6151 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1 mg/mL (6.62 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 1 mg/mL (6.62 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

4-Aminobenzohydrazide is an irreversible MPO myeloperoxidase inhibitor with an IC₅₀ of 0.3 μM^[1]. It is used for the research of subacute stroke^[2].

CUSTOMER VALIDATION

- Dev Cell. 2024 Jan 19:S1534-5807(24)00003-0.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Kettle AJ, et al. Inhibition of myeloperoxidase by benzoic acid hydrazides. *Biochem J.* 1995 Jun 1;308 (Pt 2)(Pt 2):559-63.
- [2]. Forghani R, et al. Myeloperoxidase propagates damage and is a potential therapeutic target for subacute stroke. *J Cereb Blood Flow Metab.* 2015 Mar;35(3):485-93.
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Caution: Product has not been fully validated for medical applications. For research use only.

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