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Zuschläge

- Mindermengenzuschlag
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- Expressversand

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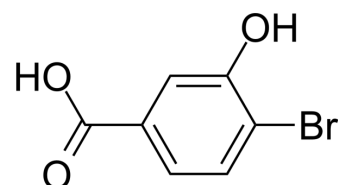
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4-Bromo-3-hydroxybenzoic acid

Cat. No.:	HY-W003445
CAS No.:	14348-38-0
Molecular Formula:	C ₇ H ₅ BrO ₃
Molecular Weight:	217.02
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
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 (460.79 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		4.6079 mL	23.0394 mL	46.0787 mL
		5 mM		0.9216 mL	4.6079 mL	9.2157 mL
		10 mM		0.4608 mL	2.3039 mL	4.6079 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 (11.52 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.52 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil					
	Solubility: ≥ 2.5 mg/mL (11.52 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	4-Bromo-3-hydroxybenzoic acid is a metabolite of Brocresine and a histidine decarboxylase (HDC) inhibitor with IC ₅₀ s of 1 mM for both rat fetal and rat gastric HDC. 4-Bromo-3-hydroxybenzoic acid also inhibits aromatic-L-amino acid decarboxylase from hog kidney and rat gastric mucosa in vitro with IC ₅₀ s of 1 mM for both enzymes ^{[1][2]} .
In Vitro	IC ₅₀ : 1 mM (Rat fetal histidine decarboxylase (HDC)), 1 mM (Ratgastric HDC), 1 mM (Hog kidney aromatic-L-amino acid decarboxylase), 1 mM (Rat gastric mucosa aromatic-L-amino acid decarboxylase) ^[1] MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Ellenbogen L, et al. Studies on the inhibition of histidine decarboxylase, aromatic-L-amino acid decarboxylase and acid secretion by brocresine and its metabolites. *Biochem Pharmacol.* 1973 Apr 15;22(8):939-47.
- [2]. Qian S, et al. Inhibiting Histamine Signaling Ameliorates Vertigo Induced by Sleep Deprivation. *J Mol Neurosci.* 2019 Mar;67(3):411-417.
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Caution: Product has not been fully validated for medical applications. For research use only.

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