2-(Aminomethyl)phenol

Cat. No.: HY-34350

CAS No.: 932-30-9

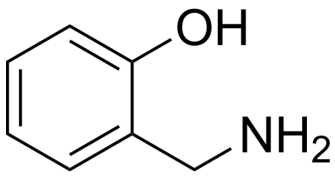
Molecular Formula: C_7H_9NO

Molecular Weight: 123.15

Target: Reactive Oxygen Species

Pathway: Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB

Storage: 4°C, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (406.01 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	8.1202 mL	40.6009 mL	81.2018 mL
	5 mM	1.6240 mL	8.1202 mL	16.2404 mL
	10 mM	0.8120 mL	4.0601 mL	8.1202 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 (20.30 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (20.30 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

2-(Aminomethyl)phenol (2-Hydroxybenzylamine), a selective dicarbonyl scavenger, is an antioxidant and scavanger of free radicals and isolevuglandins (IsoLGs). 2-(Aminomethyl)phenol can be used in the research of inflammation and cardiovascular disease, such as atherosclerosis, early recurrence of atrial fibrillation (AF) and arrhythmias[1][2].

REFERENCES

[1]. Matthew J O'Neill, et al. 2-Hydroxybenzylamine (2-HOBA) to prevent early recurrence of atrial fibrillation after catheter ablation: protocol for a randomized controlled trial including detection of AF using a wearable device.

[2]. Huan Tao, et al. Scavenging of reactive dicarbonyls with 2-hydroxybenzylamine reduces atherosclerosis in hypercholesterolemic Ldlr -/- mice.

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

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