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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
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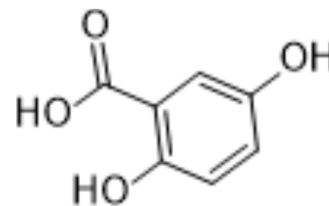
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2,5-Dihydroxybenzoic acid

Cat. No.:	HY-W001179		
CAS No.:	490-79-9		
Molecular Formula:	C ₇ H ₆ O ₄		
Molecular Weight:	154.12		
Target:	Endogenous Metabolite; FGFR		
Pathway:	Metabolic Enzyme/Protease; Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (648.85 mM)
 H₂O : 7.14 mg/mL (46.33 mM; ultrasonic and warming and heat to 60°C)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		6.4885 mL	32.4423 mL	64.8845 mL
	5 mM		1.2977 mL	6.4885 mL	12.9769 mL
	10 mM		0.6488 mL	3.2442 mL	6.4885 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: ≥ 2.5 mg/mL (16.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (16.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (16.22 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	2,5-Dihydroxybenzoic acid is a derivative of benzoic and a powerful inhibitor of fibroblast growth factors.		
IC₅₀ & Target	Microbial Metabolite	Fibroblast growth factor	Human Endogenous Metabolite
In Vitro	2,5-Dihydroxybenzoic acid (Gentisic acid) is a derivative of benzoic and a minor product of the metabolic break down of		

aspirin^[1]. 2,5-Dihydroxybenzoic acid is also a component of many traditional liquors and herbal remedies, is singled out as a powerful inhibitor of fibroblast growth factors. 2,5-Dihydroxybenzoic acid is used as a lead to identify additional compounds with better inhibitory characteristics generating a new chemical class of fibroblast growth factor inhibitors that includes the agent responsible for alkaptonuria. Through low and high resolution approaches, using representative members of the fibroblast growth factor family and their cell receptors, it is shown that this class of inhibitors may employ two different mechanisms to interfere with the assembly of the signaling complexes that trigger fibroblast growth factor-driven mitogenesis^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

It is verified from in vivo disease models that this group of inhibitors (e.g., 2,5-Dihydroxybenzoic acid) may be of interest to treat cancer and angiogenesis-dependent diseases^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- bioRxiv. 2023 Jun 3.

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REFERENCES

[1]. Levy G, et al. Salicylate accumulation kinetics in man. N Engl J Med. 1972 Aug 31;287(9):430-2.

[2]. IS Fernández, et al. Gentisic acid, a compound associated with plant defense and a metabolite of aspirin, heads a new class of in vivo fibroblast growth factor inhibitors. Journal of Biological Chemistry, 2010, 285(15):11714-29.

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

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