Benzenepentacarboxylic Acid

Cat. No.: HY-100512

CAS No.: 1585-40-6

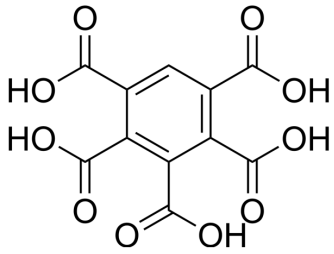
Molecular Formula: $C_{11}H_6O_{10}$

Molecular Weight: 298.16

Target: Reactive Oxygen Species

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

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (335.39 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.3539 mL	16.7695 mL	33.5390 mL
	5 mM	0.6708 mL	3.3539 mL	6.7078 mL
	10 mM	0.3354 mL	1.6770 mL	3.3539 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 (8.38 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (8.38 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (8.38 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description Benzenepentacarboxylic acid is a fluorescent dye that detects and scavenge HO radicals.

REFERENCES

[1]. Si F et al. Study on H2O2/TAED and H2O2/TBCC bleaching mechanism related to hydroxyl radical with a fluorescent probe. Carbohydr Polym. 2014 Mar 15;103:581-6.

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

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