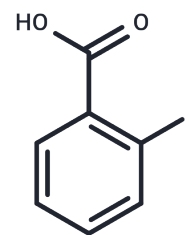


2-Iodobenzoic acid

Chemical Properties

CAS No. :	88-67-5
Formula:	C ₇ H ₅ IO ₂
Molecular Weight:	248.02
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	2-Iodobenzoic acid (o-Iodobenzoic acid) is the impact-sensitive intermediate in the synthesis of the Dess-Martin periodinane.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 3 mg/mL (12.1 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (4.03 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0319 mL	20.1597 mL	40.3193 mL
5 mM	0.8064 mL	4.0319 mL	8.0639 mL
10 mM	0.4032 mL	2.016 mL	4.0319 mL
50 mM	0.0806 mL	0.4032 mL	0.8064 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Leogane O, Lebel H. One-pot multicomponent synthesis of indoles from 2-iodobenzoic acid. *Angew Chem Int Ed Engl.* 2008;47(2):350-2. Erratum in: *Angew Chem Int Ed Engl.* 2008;47(16):2907. PubMed PMID: 18038439.

Subramanian V, Batchu VR, Barange D, Pal M. Synthesis of isocoumarins via Pd/C-mediated reactions of o-iodobenzoic acid with terminal alkynes. *J Org Chem.* 2005 Jun 10;70(12):4778-83. PubMed PMID: 15932318.

Půlpánová J, Ledvina M, Chmelar V. [The effect of various doses of ionizing radiation on the excretion of o-iodobenzoic acid-125I and their conjugates in the urine of rats]. *Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove Suppl.* 1979;22(2):287-98. Czech. PubMed PMID: 317168.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481