

## 1-iodoadamantane

## Chemical Properties

CAS No. :	768-93-4
Formula:	C <sub>10</sub> H <sub>15</sub> I
Molecular Weight:	262.131
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	1-iodoadamantane (1-Adamantyl iodide) is employed in the free-radical carbonylation reactions with alkenes.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 50.00 mg/mL (190.74 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8149 mL	19.0745 mL	38.149 mL
5 mM	0.763 mL	3.8149 mL	7.6298 mL
10 mM	0.3815 mL	1.9075 mL	3.8149 mL
50 mM	0.0763 mL	0.3815 mL	0.763 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

- Itsenko, O., & Långström, B. (2005). Radical-Mediated Carboxylation of Alkyl Iodides with [<sup>11</sup>C]Carbon Monoxide in Solvent Mixtures. *The Journal Of Organic Chemistry*, 70(6), 2244-2249. doi: 10.1021/jo047806s
- Paddon, C., Bhatti, F., Donohoe, T., & Compton, R. (2007). Electrosynthetic reduction of 1-iodoadamantane forming 1,1'-biadamantane and adamantane in aprotic solvents: Insonation switches the mechanism from dimerisation to exclusive monomer formation. *Ultrasonics Sonochemistry*, 14(5), 502-508. doi: 10.12016/j.ultsonch.2006.11.2007

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