

Decane, 1-iodo-

Chemical Properties

CAS No. : 2050-77-3

Formula: C₁₀H₂₁I

Molecular Weight: 268.1782

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

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| Description | Decane, 1-iodo- is used as an intermediate in organic synthesis. Through palladium-catalyzed carbonylative cross-coupling reaction with 9-octyl-9-borabicyclo[3.3.1]nonane, it is also used as a precursor to prepare 9-nonadecanone. |
| Targets(IC50) | Others |

Solubility Information

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| Solubility | DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble) |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.7288 mL | 18.6442 mL | 37.2884 mL |
| 5 mM | 0.7458 mL | 3.7288 mL | 7.4577 mL |
| 10 mM | 0.3729 mL | 1.8644 mL | 3.7288 mL |
| 50 mM | 0.0746 mL | 0.3729 mL | 0.7458 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

Sankar R, Archunan G. Identification of putative pheromones in bovine (*Bos taurus*) faeces in relation to estrus detection. *Anim Reprod Sci.* 2008 Jan 15;103(1-2):149-53. Epub 2007 Apr 22. PubMed PMID: 17507187.

Brockhausen I, Larsson EA, Hindsgaul O. A very simple synthesis of GlcNAc-alpha-pyrophosphoryl-decanol: a substrate for the assay of a bacterial galactosyltransferase. *Bioorg Med Chem Lett.* 2008 Jan 15;18(2):804-7. Epub 2007 Nov 17. PubMed PMID: 18042382.

Dahlén A, Hilmersson G. Mechanistic study of the SmI₂/H₂O/amine-mediated reduction of alkyl halides: amine base strength (pK_{BH}⁺) dependent rate. *J Am Chem Soc.* 2005 Jun 15;127(23):8340-7. PubMed PMID: 15941267.

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