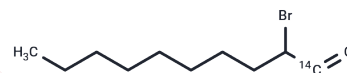


2-Bromo-1-decanal

Chemical Properties

CAS No. :	93245-72-8
Formula:	C ₁₀ H ₁₉ BrO
Molecular Weight:	237.15
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-Bromo-1-decanal was synthesized as an affinity labeling probe for the aliphatic aldehyde site of <i>Vibrio harveyi</i> luciferase. In the presence of excess amounts of this probe, the inactivation of bacterial luciferase occurred following apparent first order kinetics. This inactivation was markedly retarded in the presence of decanal but neither butanal (a very poor aldehyde substrate) nor FMN (a reaction product derived from reduced FMN) showed any significant protective effect.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2167 mL	21.0837 mL	42.1674 mL
5 mM	0.8433 mL	4.2167 mL	8.4335 mL
10 mM	0.4217 mL	2.1084 mL	4.2167 mL
50 mM	0.0843 mL	0.4217 mL	0.8433 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

Fried A, Tu SC. Affinity labeling of the aldehyde site of bacterial luciferase. *J Biol Chem.* 1984 Sep 10;259(17):10754-9. PubMed PMID: 6547953.

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