

2-Decanone-d5-1

Chemical Properties

CAS No. :	55320-60-0
Formula:	C10H20O
Molecular Weight:	161.3
Storage:	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	2-Decanone-d5-1 is a deuterium-labeled variant of 2-Decanone. As an antifungal agent, 2-Decanone inhibits the growth of pathogen hyphae, spore germination, and germ tube formation. It downregulates genes related to spore germination (MfBmp1) and infection structure formation (MfPls1), leading to the accumulation of reactive oxygen species (ROS), mitochondrial damage, and subsequent spore apoptosis. This compound shows potential for research in controlling postharvest diseases in fruits and vegetables.
-------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.1996 mL	30.9981 mL	61.9963 mL
5 mM	1.2399 mL	6.1996 mL	12.3993 mL
10 mM	0.620 mL	3.0998 mL	6.1996 mL
50 mM	0.124 mL	0.620 mL	1.2399 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.

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