

(E)-2-Hexadecenal

Chemical Properties

CAS No. :	22644-96-8
Formula:	C16H30O
Molecular Weight:	238.42
Storage:	Store at low temperature 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	(E)-2-Hexadecenal (trans-2-Hexadecenal) is a sphingolipid-related metabolite generated from the cleavage of sphingosine-1-phosphate. (E)-2-Hexadecenal (trans-2-Hexadecenal) modulates mixed lineage kinase 3 (MLK3) and c-Jun N-terminal kinase (JNK) signaling pathways, and is involved in processes such as cytoskeletal reorganization and apoptosis. (E)-2-Hexadecenal (trans-2-Hexadecenal) is commonly used in studies of sphingolipid signaling and cellular stress responses.
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1943 mL	20.9714 mL	41.9428 mL
5 mM	0.8389 mL	4.1943 mL	8.3886 mL
10 mM	0.4194 mL	2.0971 mL	4.1943 mL
50 mM	0.0839 mL	0.4194 mL	0.8389 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

Kumar A, et al. The sphingolipid degradation product trans-2-hexadecenal induces cytoskeletal reorganization and apoptosis in a JNK-dependent manner. *Cell Signal*. 2011 Jul;23(7):1144-52.

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