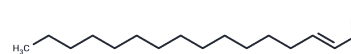


## (E)-2-Hexadecenal

## Chemical Properties

CAS No. :	22644-96-8
Formula:	C16H30O
Molecular Weight:	238.415
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	Sphingosine-1-phosphate (S1P), a bioactive lipid crucial in numerous signaling pathways, undergoes irreversible degradation by membrane-bound S1P lyase, producing (E)-2-Hexadecenal, a derivative of sphingolipid breakdown. This compound can be oxidized to (2E)-hexadecenoic acid by long-chain fatty aldehyde dehydrogenase before being activated through linkage to coenzyme A. Notably, (E)-2-Hexadecenal induces cytoskeletal reorganization, leading to cell rounding, detachment, activation of JNK pathway targets, and ultimate apoptosis in a variety of cell types. Furthermore, it readily forms aldehyde-derived DNA adducts through reactions with deoxyguanosine and DNA.
Targets(IC50)	Apoptosis,MLK,Others,Microtubule Associated,JNK

## 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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