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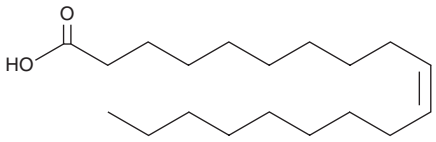
PRODUCT INFORMATION

cis-10-Nadecenoic Acid

Item No. 19749

CAS Registry No.:	73033-09-7
Formal Name:	10Z-nonadecenoic acid
Synonym:	Nonadeca-10(Z)-enoic Acid
MF:	$C_{19}H_{36}O_2$
FW:	296.5
Purity:	≥98%
Supplied as:	A solution in ethanol
Storage:	-20°C
Stability:	As supplied, 1 year from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

cis-10-Nonadecenoic acid is supplied as a solution in ethanol. To change the solvent, simply evaporate the *cis*-10-nonadecenoic acid under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of *cis*-10-nonadecenoic acid in these solvents is approximately 30 mg/ml.

cis-10-Nonadecenoic acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of *cis*-10-nonadecenoic acid should be diluted with the aqueous buffer of choice. *cis*-10-Nonadecenoic acid has a solubility of approximately 0.25 mg/ml in a 1:7 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

cis-10-Nonadecenoic acid is a C19:1 monounsaturated fatty acid. It has been examined for potential antitumor activity and was reported to inhibit HL-60 cell proliferation with an IC_{50} value of 295 µM and to prevent LPS-induced tumor necrosis factor production from mouse macrophages.[1] Furthermore, long-chain fatty acids, such as *cis*-10-nonadecenoic acid, have been shown to inhibit p53 activity.[2]

References

1. Fukuzawa, M., Yamaguchi, R., Hide, I., *et al*. Possible involvement of long chain fatty acids in the spores of *Ganoderma lucidum* (Reishi Houshi) to its anti-tumor activity. *Biol. Pharm. Bull.* **31(10)**, 1933-1937 (2008).
2. Iijima, H., Kasai, N., Chiku, H., *et al*. The inhibitory action of long-chain fatty acids on the DNA binding activity of p53. *Lipids* **41(6)**, 521-527 (2006).

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