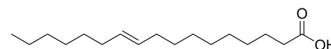


## trans-10-Heptadecenoic acid

Cat. No.:	HY-116037A
CAS No.:	126761-43-1
Molecular Formula:	C <sub>17</sub> H <sub>32</sub> O <sub>2</sub>
Molecular Weight:	268.43
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

trans-10-Heptadecenoic acid is a trans-fatty acid. trans-10-Heptadecenoic acid synthesizes polyhydroxy-chain alkanates under the action of 2, 4-dienyl-CoA reductase and Delta3, Delta2-enyl-CoA isomerase. In the absence of 2, 4-dienyl-CoA reductase, trans-10-Heptadecenoic acid is degraded by enyl-CoA hydratase II of the multifunctional enzyme (MFE). trans-10-Heptadecenoic acid leads to massive intracellular carbon outflow through reductase dependent and direct MFE dependent pathways<sup>[1]</sup>.

### REFERENCES

[1]. Robert J, et al. Analysis of the beta-oxidation of trans-unsaturated fatty acid in recombinant *Saccharomyces cerevisiae* expressing a peroxisomal PHA synthase reveals the involvement of a reductase-dependent pathway. *Biochim Biophys Acta*. 2005 May 15;1734(2):169-77.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA