

Product Data Sheet

Product Name: trans-Phytoene

Cat. No.: GD23275

Chemical Properties

Cas. No. 540-04-5

Formula C₄₀H₆₄

M.Wt 544.94

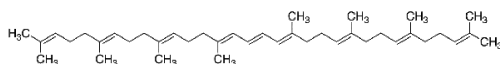
Solubility

Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Phytoene (trans-Phytoene) is a carotene pigment. Phytoene is the precursor of all carotenoids. Phytoene is the predominant PT isomer in most carotenogenic organisms. Phytoene can delay the skin tumors appearance and reduce their number in mice that are induced the tumors with UV-B light. Phytoene leads to protection against oxidative stress and malignant transformation. Phytoene inhibits the proliferation of breast cancer cells^[1].

References:

[1]. Meléndez-Martínez, A. J., et al., (2015). A comprehensive review on the colorless carotenoids phytoene and phytofluene. Archives of biochemistry and biophysics, 572, 188–200.

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

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