

Product Data Sheet

Product Name: N-Palmitoyl Phenylalanine

Cat. No.: GC91996

Chemical Properties

Cas. No. 37571-96-3

Chemical Name N-(1-oxohexadecyl)-L-phenylalanine

SMILES CCCCCCCCCCCCCCCC(N[C@@H](CC1=CC=CC=C1)C(=O)O)=O

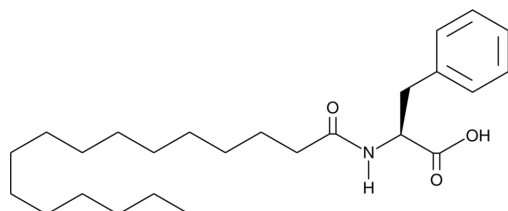
Formula $C_{25}H_{41}NO_3$ M.Wt 403.6

Solubility Ethanol: Sparingly soluble: 1-10 mg/ml Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

N-Palmitoyl phenylalanine is an N-acyl amide that contains the long-chain saturated fatty acid palmitic acid conjugated *via* an amide bond to the essential amino acid L-phenylalanine. It inhibits pre-mRNA splicing in HeLa cell nuclear lysates ($IC_{50} = \sim 150 \text{ ?M}$) but has no splicing activity in intact HeLa cells.¹

References:

[1]. Effenberger, K.A., James, R.C., Urabe, V.K., et al. The natural product N-palmitoyl-L-leucine selectively inhibits late assembly of human spliceosomes. *J. Biol. Chem.* 290(46):27524-27531 (2015).

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

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