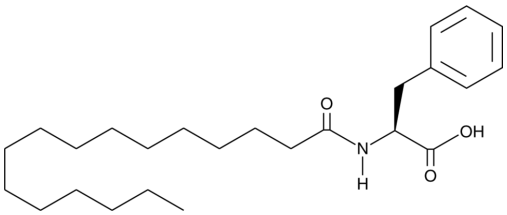
Product Data Sheet

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°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

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} = ~150 ?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 spliceosomesJ. 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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