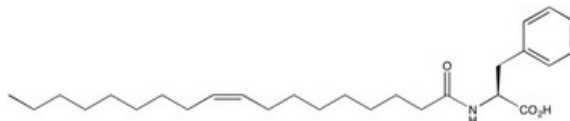


Catalog	Unit
TBI1602-5MG	5 mg
TBI1602-25MG	25 mg

Product Details

Formal Name: N-Oleoyl Phe
Alternate Names: NOPA, C18-1-Phe
Molecular Formula: C₂₇H₄₃NO₃
Formula Weight: 429.64
CAS Number: 136560-78-6
Purity: 99%
Formulation: Powder
Solubility: Soluble in DMSO (35 mg/ml)
Storage: -20°C
Stability: ≥ 1 year



Applications

Endogenous Uncoupler of Mitochondrial Respiration

Functions

N-Oleoylphenylalanine (136560-78-6) is an endogenous lipoamino acid produced via the action of a secreted enzyme PM20D1 produced by adipocytes. N-Oleoylphenylalanine binds directly to mitochondria and functions as an endogenous uncoupler of UCP1-independent respiration and is the most potent in the group of structurally different lipoamino acids evaluated. Mice treated with an analog, C18-1-Leu, were found to have improved glucose homeostasis and increased energy expenditure.

Application Procedures

First dissolved in DMSO (35 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.