

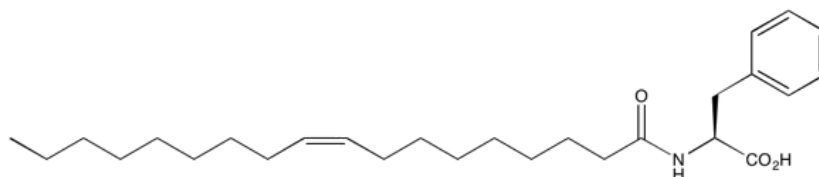
Catalog # 10-1602
N-Oleoylphenylalanine

CAS 136560-78-6

N-Oleoyl Phe

NOPA, C18-1-Phe

Lot # S103102



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.¹

- 1) Long *et al.* (2016), *The Secreted Enzyme PM20D1 Regulates Lipidated Amino Acid Uncouplers of Mitochondria Cell*, **166** 424

PHYSICAL DATA

Molecular Weight:	429.64
Molecular Formula:	C ₂₇ H ₄₃ NO ₃
Purity:	99% by TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (up to 35 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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