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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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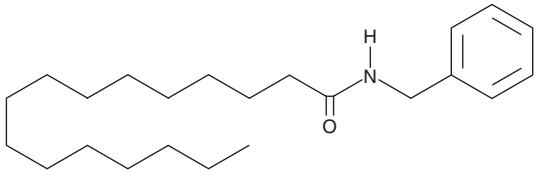
PRODUCT INFORMATION

N-Benzylpalmitamide

Item No. 9002235

CAS Registry No.:	74058-71-2
Formal Name:	N-(phenylmethyl)-hexadecanamide
Synonym:	N-Benzylhexadecanamide
MF:	$C_{23}H_{39}NO$
FW:	345.6
Purity:	≥98%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

N-Benzylpalmitamide is supplied as a crystalline solid. A stock solution may be made by dissolving the N-benzylpalmitamide in the solvent of choice, which should be purged with an inert gas. N-Benzylpalmitamide is soluble in the organic solvent ethanol at a concentration of approximately 2 mg/ml.

Description

N-Benzylpalmitamide is a long-chain fatty acid amide (macamide or macaene) isolated from the maca (*L. meyenii*) plant and is structurally related to cannabinoids.[1] N-Benzylpalmitamide has been the most frequently isolated of the 19 macamides currently identified. While many macamides have been identified as potent inhibitors of fatty acid amide hydrolase (FAAH), N-benzylpalmitamide displays only moderate FAAH inhibitory activity (44% inhibition at 500 µM).[1] Additionally, many members of this family demonstrate selective antiproliferative activity against diverse cancer cell lines.[2]

References

1. Wu, H., Kelley, C.J., Pino-Figueroa, A., *et al.* Macamides and their synthetic analogs: Evaluation of in vitro FAAH inhibition. *Bioorg. Med. Chem.* **21(17)**, 5188-5197 (2013).
2. dos Santos, D.S., Piovesan, L.A., D'Oca, C.R.M., *et al.* Antiproliferative activity of synthetic fatty acid amides from renewable resources. *Bioorg. Med. Chem.* **23(2)**, 340-347 (2015).

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