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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION



Arachidonoyl *m*-Nitroaniline

Item No. 90059

CAS Registry No.: 1175954-87-6
Formal Name: N-(3-nitrophenyl)-5Z,8Z,11Z,14Z-eicosatetraenamide

Synonym: AmNA
MF: C₂₆H₃₆N₂O₃

FW: 424.6

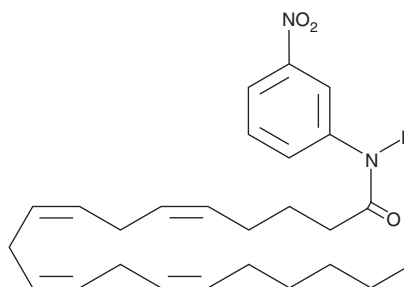
Purity: ≥98%

UV/Vis.: λ_{max}: 203, 242 nm

Supplied as: A solution in methyl acetate

Storage: -20°C

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

Arachidonoyl *m*-Nitroaniline (AmNA) is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of AmNA in these solvents is approximately 50 mg/ml.

AmNA is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the methyl acetate solution of AmNA should be diluted with the aqueous buffer of choice. AmNA has a solubility of approximately 1 mg/ml in a 1:4 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

AmNA is one of several nitroaniline fatty acid amides which can be used to measure fatty acid amide hydrolase (FAAH) activity.¹ FAAH is a relatively unselective enzyme in that it accepts a variety of amide head groups other than the ethanolamine of its nominal endogenous substrate anandamide (arachidonoyl ethanolamide; AEA). It also will hydrolyze fatty acid amides with fewer carbons and fewer double bonds than arachidonate (see also Decanoyl *m*-Nitroaniline; Item No. 90349). Exposure of AmNA to FAAH activity results in the release of the yellow colorimetric dye *m*-nitroaniline ($\epsilon = 13,500$ at 410 nm). This offers the potential for fast and convenient measurements of FAAH activity using a 96 well plate spectrophotometer.

Reference

1. Patricelli, M.P. and Cravatt, B.F. Characterization and manipulation of the acyl chain selectivity of fatty acid amide hydrolase. *Biochemistry* **40**, 6107-6115 (2001).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM