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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

SZABO-SCANDIC Handels GmbH

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



ANA-12

Item No. 14309

CAS Registry No.: 219766-25-3

Formal Name: N-[2-[[[(hexahydro-2-oxo-1H-azepin-3-yl)amino]carbonyl]phenyl]-benzo[b]thiophene-2-carboxamide

MF: C₂₂H₂₁N₃O₃S

FW: 407.5

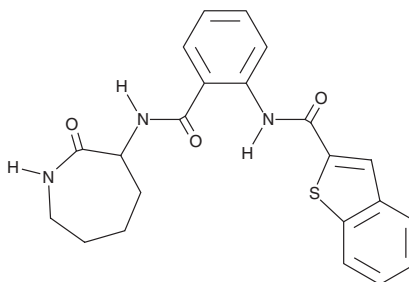
Purity: ≥98%

UV/Vis.: λ_{max}: 247, 299, 315 nm

Supplied as: A crystalline solid

Storage: -20°C

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



Laboratory Procedures

ANA-12 is supplied as a crystalline solid. A stock solution may be made by dissolving the ANA-12 in the solvent of choice. ANA-12 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas, at a concentration of 5 mg/ml.

Description

ANA-12 is a TrkB receptor antagonist that prevents activation of the receptor by BDNF with IC₅₀ values of 45.6 nM and 41.1 μM for the high and low affinity sites of the receptor, respectively.¹ It does not affect TrkA or TrkC in an assay of neurite outgrowth.¹ Mice administered ANA-12 demonstrated reduced anxiety- and depression-related behaviors on a variety of tests predictive of anxiolytic and antidepressant properties in humans.¹

Reference

1. Cazorla, M., Prémont, J., Mann, A., *et al.* Identification of a low-molecular weight TrkB antagonist with anxiolytic and antidepressant activity in mice. *J. Clin. Invest.* **121**(5), 1846-1857 (2011).

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