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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

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) 

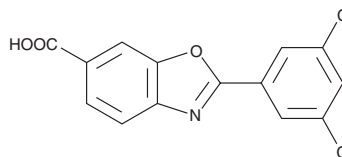
PRODUCT INFORMATION



Tafamidis

Item No. 13694

CAS Registry No.: 594839-88-0
Formal Name: 2-(3,5-dichlorophenyl)-6-benzoxazolecarboxylic acid
Synonym: PF-06291826
MF: C₁₄H₇Cl₂NO₃
FW: 308.1
Purity: ≥98%
UV/Vis.: λ_{max}: 214, 301, 310, 324 nm
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

Tafamidis is supplied as a crystalline solid. A stock solution may be made by dissolving the tafamidis in the solvent of choice, which should be purged with an inert gas. Tafamidis is soluble in organic solvents such as ethanol and DMSO. The solubility of tafamidis in these solvents is approximately 1 and 5 mg/ml, respectively.

Description

Tafamidis is a kinetic stabilizer of transthyretin (TTR) that prevents amyloidogenesis by wild-type and mutant TTRs.¹ It binds to TTR with negative cooperativity ($K_{d1} = 3$ nM; $K_{d2} = 278$ nM) to stabilize the TTR dimer-dimer interface and inhibit tetrameric dissociation. Tafamidis stabilizes wild-type and clinically significant V30M and V122I mutant TTR amyloidogenic homotetramers ($EC_{50s} = 2.7$ - 3.2 μM) under fibril-promoting, denaturing, and physiological conditions *in vitro*. It stabilizes TTR heterotetramers containing wild-type and mutant subunits *ex vivo* in human plasma derived from patients carrying V30M or V122I mutations when used at a concentration of 7.2 μM. Formulations containing tafamidis have been used for the treatment of familial amyloid polyneuropathy.²

References

1. Bulawa, C.E., Connelly, S., Devit, M., et al. Tafamidis, a potent and selective transthyretin kinetic stabilizer that inhibits the amyloid cascade. *Proc. Natl. Acad. Sci. USA* **109**(24), 9629-9634 (2012).
2. Scott, L.J. Tafamidis: A review of its use in familial amyloid polyneuropathy. *Drugs* **74**(12), 1371-1378 (2014).

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