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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)



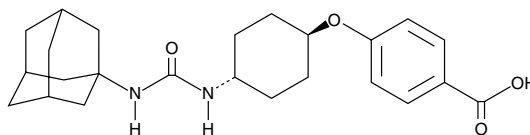
Product Information



trans-AUCB

Item No. 16568

CAS Registry No.: 885012-33-9
Formal Name: 4-[[*trans*-4-[[tricyclo[3.3.1.1^{3,7}]dec-1-ylamino)carbonyl]amino]cyclohexyl]oxy]-benzoic acid
MF: C₂₄H₃₂N₂O₄
FW: 412.5
Purity: ≥90%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 256 nm



Laboratory Procedures

For long term storage, we suggest that *trans*-AUCB be stored as supplied at -20°C. It should be stable for at least two years.

trans-AUCB is supplied as a crystalline solid. A stock solution may be made by dissolving the *trans*-AUCB in the solvent of choice. *trans*-AUCB is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of *trans*-AUCB in these solvents is approximately 30 and 20 mg/ml, respectively.

For maximum solubility in aqueous buffers, *trans*-AUCB should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. *trans*-AUCB has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Soluble epoxide hydrolase (sEH) converts epoxides to their corresponding diols. Inhibitors of sEH have anti-inflammatory, anti-hypertensive, neuroprotective, and cardioprotective effects.^{1,2} *trans*-AUCB is a very potent inhibitor of sEH (IC₅₀ = 0.5 nM).³ It displays high oral bioavailability for doses ranging from 0.01 to 1 mg/kg.^{4,5} Dual inhibition of COX-2 and sEH, by celecoxib (Item No. 10008672) and *trans*-AUCB, suppresses tumor angiogenesis, inhibiting tumor growth and metastasis in a Lewis lung carcinoma model in mice.⁶

References

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Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16568

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. 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

Mailing address

1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone

(800) 364-9897
(734) 971-3335

Fax

(734) 971-3640

E-Mail

custserv@caymanchem.com

Web

www.caymanchem.com