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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



ARM1

Item No. 15865

CAS Registry No.: 68729-05-5

Formal Name: 4-[4-(phenylmethyl)phenyl]-2-thiazolamine

MF: $C_{16}H_{16}N_2S$

FW: 268.4

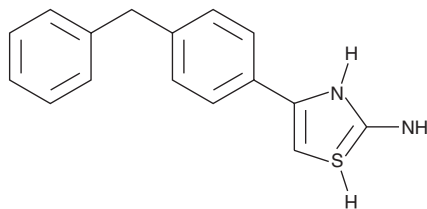
Purity: $\geq 95\%$

UV/Vis.: λ_{max} : 236, 285, 344 nm

Supplied as: A crystalline solid

Storage: $-20^{\circ}C$

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



Laboratory Procedures

ARM1 is supplied as a crystalline solid. A stock solution may be made by dissolving the ARM1 in the solvent of choice. ARM1 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of ARM1 in these solvents is approximately 1, 10, and 15 mg/ml, respectively.

ARM1 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, ARM1 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. ARM1 has a solubility of approximately 0.1 mg/ml in a 1:6 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Leukotriene A_4 (LTA_4) hydrolase/aminopeptidase is a bifunctional zinc metalloenzyme that both catalyzes the synthesis of LTB_4 (Item No. 20110) from LTA_4 and cleaves the chemotactic peptide Pro-Gly-Pro.^{1,2} ARM1 is a thiazolamine that inhibits LTB_4 synthesis in human neutrophils ($IC_{50} = \sim 0.5 \mu M$) and conversion of LTA_4 to LTB_4 by purified LTA_4 hydrolase ($K_i = 2.3 \mu M$).³ ARM1 does not significantly affect the hydrolysis of Pro-Gly-Pro by LTA_4 hydrolase.³

References

1. Haeggström, J.Z. Leukotriene A_4 hydrolase/aminopeptidase, the gatekeeper of chemotactic leukotriene B_4 biosynthesis. *J. Biol. Chem.* **279**(49), 50639-50642 (2004).
2. Snelgrove, R.J., Jackson, P.L., Hardison, M.T., *et al.* A critical role for LTA_4H in limiting chronic pulmonary neutrophilic inflammation. *Science* **330**, 90-94 (2010).
3. Stsiapanava, A., Olsson, U., Wan, M., *et al.* Binding of Pro-Gly-Pro at the active site of leukotriene A_4 hydrolase/aminopeptidase and development of an epoxide hydrolase selective inhibitor. *Proc. Natl. Acad. Sci. USA* **111**(11), 4227-4232 (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