SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

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

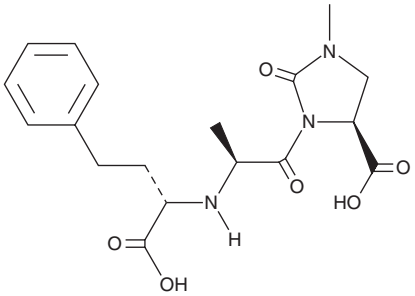
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Imidaprilat

Item No. 38046

CAS Registry No.: 89371-44-8
Formal Name: 3-[(2S)-2-[[(1S)-1-carboxy-3-phenylpropyl] amino]-1-oxopropyl]-1-methyl-2-oxo-4S-imidazolidinecarboxylic acid
Synonym: 6366A
MF: $C_{18}H_{23}N_3O_6$
FW: 377.4
Purity: ≥95%
Supplied as: A 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

Imidaprilat is supplied as a solid. A stock solution may be made by dissolving the imidaprilat in the solvent of choice, which should be purged with an inert gas. Imidaprilat is soluble in the organic solvent DMSO.

Description

Imidaprilat is an inhibitor of angiotensin-converting enzyme (ACE; IC_{50} = 2.6 nM) and an active metabolite of the prodrug imidapril (Item No. 18854).[1] It inhibits bradykinin-induced contractions in isolated guinea pig ileum (IC_{50} = 1.7 nM). Imidaprilat (50 nM) reduces adhesion induced by chemokine (C-C-) motif ligand 2 (CCL2) of THP-1 monocytes to TNF-α-activated human umbilical vein endothelial cells (HUVECs).[2] *In vivo*, imidaprilat (1 mg/kg) inhibits the angiotensin I-induced pressor response in unanesthetized normotensive rats.[1]

References

1. Kubo, M., Kato, J., Ochiai, T., *et al.* Pharmacological studies on (4S)-1-methyl-3-[(2S)-2-[N-((1S)-1-ethoxycarbonyl-3-phenylpropyl)amino] propionyl]-2-oxo-imidazolidine-4-carboxylic acid hydrochloride (TA-6366), a new ACE inhibitor: I. ACE inhibitory and anti-hypertensive activities. *Jpn. J. Pharmacol.* **53(2)**, 201-210 (1990).
2. Kojima, C., Kawakami, A., Takei, T., *et al.* Angiotensin-converting enzyme inhibitor attenuates monocyte adhesion to vascular endothelium through modulation of intracellular zinc. *J. Pharmacol. Exp. Ther.* **323(3)**, 855-860 (2007).

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.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 02/12/2024

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