

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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 in



PRODUCT INFORMATION



Barnidipine (hydrochloride)

Item No. 20448

CAS Registry No.: 104757-53-1

Formal Name: (4S)-3,5-pyridinedicarboxylic acid,

3-methyl 5-[(3S)-1-(phenylmethyl)-3-

pyrrolidinyl] ester, monohydrochloride

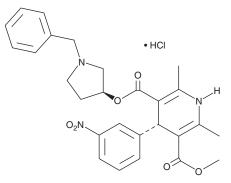
Synonym: YM-09730-5 MF: C27H29N3O6 • HCI

FW: 528.0 **Purity:**

λ_{max}: 217, 237, 356 nm UV/Vis.: Supplied as: A crystalline solid

-20°C Storage: Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



Laboratory Procedures

Barnidipine (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the barnidipine (hydrochloride) in the solvent of choice. Barnidipine (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of barnidipine (hydrochloride) in ethanol is approximately 10 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Description

Barnidipine is a dihydropyridine calcium channel blocker that has an IC50 value of 0.35 nM in potassium-induced tonic contraction of pig coronary artery. It demonstrates antihypertensive activity by reducing peripheral vascular resistance. It decreases blood pressure in spontaneously hypertensive rats when administered orally at 1 and 3 mg/kg per day.² Formulations containing barnidipine have been used as a treatment for hypertension.

References

- 1. Nakayama, K., Kashiwabara, T., Yamada, S., et al. Assessment in pig coronary artery of long-lasting and potent calcium antagonistic actions of the novel dihydropyridine derivative mepirodipine hydrochloride. Arzneimittelforschung 39(1), 50-55 (1989).
- 2. Kawashima, K., Toda, H., Oohata, H., et al. Antihypertensive and diuretic effects of YM-09730-5, a new calcium antagonist, in stroke-prone spontaneously hypertensive rats. Gen. Pharmacol. 22(2), 263-266 (1991).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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