

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 <u>mail@szabo-scandic.com</u> www.szabo-scandic.com

PRODUCT INFORMATION



Racecadotril

Item No. 20390

CAS Registry No.:	81110-73-8	
Formal Name:	N-[2-[(acetylthio)methyl]-1-oxo-3-	∑_o
	phenylpropyl]-glycine, phenylmethyl ester	
Synonym:	Acetorphan	S H
MF:	C ₂₁ H ₂₃ NO ₄ S	
FW:	385.5	
Purity:	≥98%	ö _
Supplied as:	A crystalline solid	
Storage:	-20°C	
Stability:	As supplied, 2 years from the QC date provi stored properly	ided on the Certificate of Analysis, when

Laboratory Procedures

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

Racecadotril is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, racecadotril should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Racecadotril has a solubility of approximately 0.16 mg/ml in a 1:6 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Racecadotril is an enkephalinase inhibitor that prevents the degradation of endogenous opioids.^{1,2} It demonstrates antidiarrheal activity by reducing hypersecretion of water and electrolytes into the intestinal lumen.³ Racecadotril is a pro-drug that is metabolized in vivo into the active compound, thiorphan (Item No. 15600).1

References

- 1. Spillantini, M., Gepetti, P., Fanciullacci, M., et al. In vivo 'enkephalinase' inhibition by acetorphan in human plasma and CSF. European Journal of Pharmacology 125(1), 147-150 (1986).
- 2. Gros, C., Souque, A., Schwartz, J.-C. et al. Protection of atrial natriuretic factor against degradation: Diuretic and natriuretic responses after in vivo inhibition of enkephalinase (EC 3.4.24.11) by acetorphan. Proc. Natl. Acad. Sci. USA 86(19), 7580-7584 (1989).
- 3. Baumer, P., Danquechin Dorval, E., Bertrand, J., et al. Effects of acetorphan, an enkephalinase inhibitor, on experimental and acute diarrhoea. Gut 33(6), 753-758 (1992).

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

SAFFTY 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

uyer 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, 11/15/2016

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