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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) 

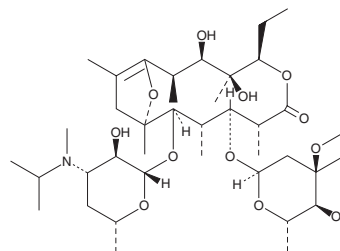
PRODUCT INFORMATION



EM574

Item No. 27752

CAS Registry No.: 110480-13-2
Formal Name: 8,9-didehydro-N-demethyl-9-deoxy-6-deoxy-6,9-epoxy-N-(1-methylethyl)-erythromycin
MF: C₃₉H₆₉NO₁₂
FW: 744.0
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

EM574 is supplied as a solid. A stock solution may be made by dissolving the EM574 in the solvent of choice, which should be purged with an inert gas. EM574 is soluble in ethanol, methanol, and DMSO.

Description

EM574 is a motilin receptor agonist with an IC₅₀ value of 6.17 nM for binding to rabbit gastric antral smooth muscle homogenates in a radioligand binding assay.¹ It also binds to human smooth muscle homogenates in a radioligand binding assay (K_d = 7.8 nM).² EM574 induces contraction of isolated rabbit, but not rat or guinea pig, intestine (EC₅₀ = 5.5 nM).¹ It increases antral motility and enhances gastric emptying in canine models of gastroparesis when administered intraduodenally at a dose of 0.03 mg/kg following a semi-solid meal.³

References

1. Sato, F., Sekiguchi, M., Marui, S., *et al.* EM574, an erythromycin derivative, is a motilin receptor agonist in the rabbit. *Eur. J. Pharmacol.* **322(1)**, 63-71 (1997).
2. Satoh, M., Sakai, T., Fujikura, K., *et al.* EM574, an erythromycin derivative, is a potent motilin receptor agonist in human gastric antrum. *J. Pharmacol. Exp. Ther.* **271(1)**, 574-579 (1994).
3. Sato, F., Marui, S., Inatomi, N., *et al.* EM574, an erythromycin derivative, improves delayed gastric emptying of semi-solid meals in conscious dogs. *Eur. J. Pharmacol.* **395(2)**, 165-172 (2000).

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