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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

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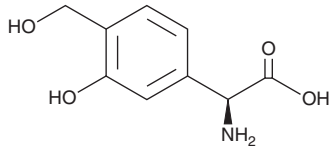
PRODUCT INFORMATION

Forphenicinol

Item No. 36382

CAS Registry No.:	71522-58-2
Formal Name:	αS-amino-3-hydroxy-4-(hydroxymethyl)-benzeneacetic acid
Synonym:	Forfenimex
MF:	$C_9H_{11}NO_4$
FW:	197.2
Purity:	≥90%
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

Forphenicinol is supplied as a solid. A stock solution may be made by dissolving the forphenicinol in the solvent of choice. Forphenicinol is soluble in organic solvents such as methanol and DMSO, which should be purged with an inert gas. It is also is also soluble in water. We do not recommend storing the aqueous solution for more than one day.

Description

Forphenicinol is an immunomodulator and a derivative of the bacterial metabolite forphenicine (Item No. 33504).[1] It increases the phagocytosis of yeast by peritoneal macrophages isolated from thioglycolate-stimulated mice. Forphenicinol (100 µg/animal) prevents cyclophosphamide-induced suppression of delayed-type hypersensitivity (DTH), as well as enhances DTH in response to the hapten oxazolone or sheep red blood cells in mice. It enhances the bactericidal activity of macrophages against *P. aeruginosa* in mice when administered at a dose of 0.5 mg/kg.[3] Forphenicinol (15.6-1,000 µg/animal) increases survival in a mouse model of *P. aeruginosa* infection.[2] It also inhibits tumor growth in S180 sarcoma and IMC carcinoma mouse xenograft models when administered at doses ranging from 0.05 to 5 mg/kg per day.

References

1. Ishizuka, M., Ishizeki, S., Masuda, T., *et al.* Studies on effects of forphenicinol on immune responses. *J. Antibiot. (Tokyo)* **35(8)**, 1042-1048 (1982).
2. Ishizuka, M., Masuda, T., Kanbayashi, N., *et al.* Antitumor effect of forphenicinol, a low molecular weight immunomodifier, on murine transplantable tumors and microbial infections. *J. Antibiot. (Tokyo)* **35(8)**, 1049-1054 (1982).
3. Naito, K., Arakawa, H., Watanabe, Y., *et al.* Protective effect of forphenicinol, a low molecular weight immunomodifier, against infection with *Pseudomonas aeruginosa* in mice and its mechanisms. *J. Antibiot. (Tokyo)* **40(4)**, 547-545 (1987).

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
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