



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](https://www.linkedin.com/company/szaboscandic) 

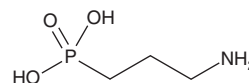
PRODUCT INFORMATION



3-Aminopropylphosphonic Acid

Item No. 23556

CAS Registry No.: 13138-33-5
Formal Name: P-(3-aminopropyl)-phosphonic acid
Synonyms: β -Aminopropylphosphonic Acid, 3-APPA, NSC 133832
MF: $C_3H_{10}NO_3P$
FW: 139.1
Purity: $\geq 95\%$
Supplied as: A crystalline solid
Storage: $-20^\circ C$
Stability: ≥ 2 years



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

Laboratory Procedures

3-Aminopropylphosphonic acid (3-APPA) is supplied as a crystalline solid. A stock solution may be made by dissolving the 3-APPA in the solvent of choice. 3-APPA is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of 3-APPA in these solvents is approximately 30, 2, and 5 mg/ml, respectively.

3-APPA is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 3-APPA should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 3-APPA has a solubility of approximately 0.25 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

3-APPA is a phosphonic analog of GABA that acts as a partial agonist of GABA_B receptors ($IC_{50} = 1.5 \mu M$ in a radioligand binding assay).^{1,2} It induces relaxation in unstimulated isolated guinea pig ileum longitudinal muscle and reverses GABA- and baclofen-induced inhibition of twitch responses in isolated guinea pig ileum longitudinal muscle.² 3-APPA (5 mg/kg) completely inhibits GABA- and baclofen-induced inhibition of vagally stimulated bronchospasms in guinea pigs.³ It also reverses the antitussive effect of baclofen in cats when administered at a dose of 3 mg/kg.⁴

References

1. Luzzi, S., Franchi-Micheli, S., Ciuffi, M., *et al.* GABA-related activities of amino phosphonic acids on guinea-pig ileum longitudinal muscle. *J. Auton. Pharmacol.* **6(3)**, 163-169 (1986).
2. Ling, Q., Xu, X., Wei, X., *et al.* Oxymatrine induces human pancreatic cancer PANC-1 cells apoptosis via regulating expression of Bcl-2 and IAP families, and releasing of cytochrome c. *J. Exp. Clin. Cancer Res.* **30**, 66 (2011).
3. Chapman, R.W., Danko, G., Rizzo, C., *et al.* Prejunctional GABA-B inhibition of cholinergic, neurally-mediated airway contractions in guinea-pigs. *Pulm. Pharmacol.* **4(4)**, 218-224 (1991).
4. Bolser, D.C., Aziz, S.M., DeGennaro, F.C., *et al.* Antitussive effects of GABA_B agonists in the cat and guinea-pig. *Br. J. Pharmacol.* **110(1)**, 491-495 (1993).

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, 03/09/2018

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