



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

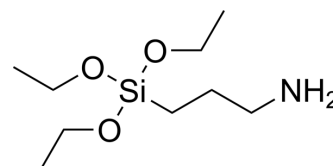
www.szabo-scandic.com

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



3-Aminopropyltriethoxysilane

Cat. No.:	HY-D0175
CAS No.:	919-30-2
Molecular Formula:	C ₉ H ₂₃ NO ₃ Si
Molecular Weight:	221.37
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 100 mg/mL (451.73 mM)
* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		4.5173 mL	22.5866 mL	45.1732 mL
	5 mM		0.9035 mL	4.5173 mL	9.0346 mL
	10 mM		0.4517 mL	2.2587 mL	4.5173 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

3-Aminopropyltriethoxysilane (APTES) acts as a strong glue to immobilize biomolecules such as antibodies and enzymes to silicon and silicon derivatives such as silicon nitride (Si₃N₄) on. 3-Aminopropyltriethoxysilane also acts as a spacer, providing biomolecules with more spatial freedom during immobilization for higher specific activity. 3-Aminopropyltriethoxysilane can form a more stable, sensitive, and highly biocompatible bioanalytical platform by immobilizing biomolecules onto some solid materials, electrode materials, nanomaterials, and nanocomposites^{[1][2]}.

In Vitro

3-Aminopropyltriethoxysilane is unstable in aqueous solution (hydrolytically unstable), and its ethoxy group is easily hydrolyzed into ethanol and trienol group^[2].
3-Aminopropyltriethoxysilane. At neutral pH, the half-lives of APTES are 56 h (10°C) and 8.4 h (24°C), respectively^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Saengdee P, et al. Optimization of 3-aminopropyltriethoxysilane functionalization on silicon nitride surface for biomolecule immobilization. Talanta. 2020;207:120305.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA