



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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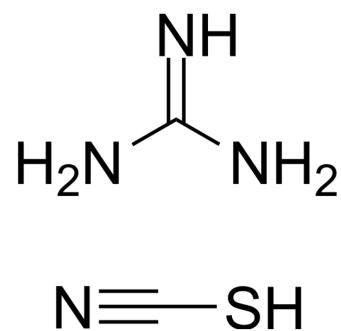
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## Guanidine thiocyanate

<b>Cat. No.:</b>	HY-D0841		
<b>CAS No.:</b>	593-84-0		
<b>Molecular Formula:</b>	C <sub>2</sub> H <sub>6</sub> N <sub>4</sub> S		
<b>Molecular Weight:</b>	118.16		
<b>Target:</b>	Endogenous Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (846.31 mM; Need ultrasonic)  
 H<sub>2</sub>O : 100 mg/mL (846.31 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		8.4631 mL	42.3155 mL	84.6310 mL
	5 mM		1.6926 mL	8.4631 mL	16.9262 mL
	10 mM		0.8463 mL	4.2316 mL	8.4631 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Guanidine thiocyanate is a strong protein denaturant and potent inhibitor of nucleases. Guanidinium thiocyanate is a nucleic acid protector in the extraction of DNA and RNA from cells. Guanidine thiocyanate is a common component of buffers used for nucleic acid extraction<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite

#### In Vitro

Guanidine thiocyanate based-nucleic acid extraction buffers can effectively inactivate high-consequence enveloped viruses, such as Ebola virus, Marburg virus, and Rift Valley Fever virus, as well as West Nile virus, influenza, Venezuelan equine encephalitis virus, and recently, SARS-CoV-2<sup>[1]</sup>.

Guanidine thiocyanate-based nucleic acid extraction buffers are an effective means of inactivating poliovirus infectious materials and potentially infectious materials<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

- Virus Res. 2020 Jul 2;283:197974.
- Virol J. 2018 Jan 3;15(1):1.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

[1]. Michelle J Honeywood, et al. Use of guanidine thiocyanate-based nucleic acid extraction buffers to inactivate poliovirus in potentially infectious materials. J Virol Methods. 2021 Nov;297:114262.

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

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