

Product Data Sheet

Product Name: Guandine thiocyanate

Cat. No.: GD13917

Chemical Properties

Cas. No. 593-84-0

Formula C₂H₆N₄S

M.Wt 118.16

Solubility DMSO : 100 mg/mL (846.31 mM; Need ultrasonic); H₂O : 100 mg/mL (846.31 mM; Need ultrasonic)

Storage Store at RT

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

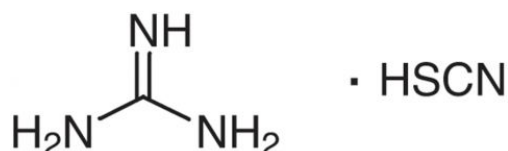
Caution: Product has not been fully validated for medical applications. For research use only.

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Structure



Background

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.

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^[1].

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

[1]. Michelle J Honeywood, et al. Use of guanidine thiocyanate-based nucleic acid extraction buffers

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to inactivate poliovirus in potentially infectious materials. J Virol Methods. 2021 Nov;297:114262.

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