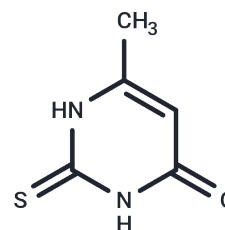


Methylthiouracil

Chemical Properties

CAS No. :	56-04-2
Formula:	C ₅ H ₆ N ₂ OS
Molecular Weight:	142.18
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Methylthiouracil (NSC-193526) is a thiourea antithyroid agent that inhibits the synthesis of thyroid hormone, and it is used to treat hyperthyroidism.
Targets(IC50)	ERK,Antiviral,NF-κB,Interleukin,TNF
In vitro	Methylthiouracil acts to decrease the formation of stored thyroid hormone, as thyroglobulin in the thyroid gland. Methylthiouracil is also used in combination with radioactive iodine.

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 27 mg/mL (189.9 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.0333 mL	35.1667 mL	70.3334 mL
5 mM	1.4067 mL	7.0333 mL	14.0667 mL
10 mM	0.7033 mL	3.5167 mL	7.0333 mL
50 mM	0.1407 mL	0.7033 mL	1.4067 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

- Crooks J, et al. Br Med J, 1960, 1(5167), 151-154.
Doniach I, et al. Br J Cancer, 1953, 7(2), 181-202.

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