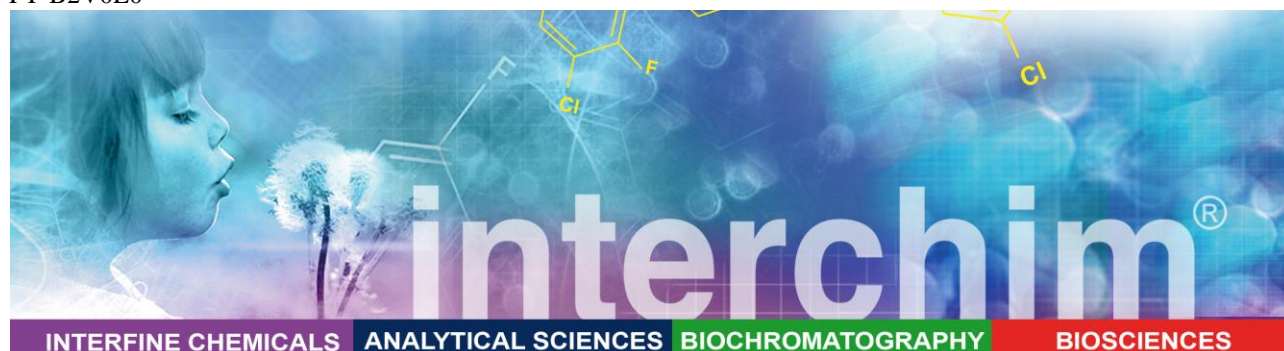


FT-B2V0E0



2'-deoxythymidine

Specific precursor of deoxyribonucleic acid, used as a cell synchronizing agent. Thymidine is a DNA synthesis inhibitor that can arrest cell at G1/S boundary, prior to DNA replication.

Product Description

Catalog #: B2V0E0, 25g

Name: 2'-deoxythymidine

Thymine

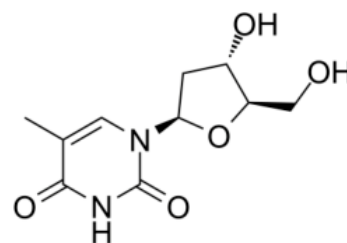
Purity : >99%

CAS: [50-89-5]

MW: 242.23

C₁₀H₁₄N₂O₅

Storage:	Powder	-20°C	3 years
		+4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



Technical and Scientific Information

Thymidine, a specific precursor of deoxyribonucleic acid, is used as a cell synchronizing agent. Thymidine is a DNA synthesis inhibitor that can arrest cell at G1/S boundary, prior to DNA replication^{[1][2][3]}.

In Vitro

DMSO : 50 mg/mL (206.42 mM; Need ultrasonic)

H₂O : 33.33 mg/mL (137.60 mM; Need ultrasonic)

In Vivo

Thymidine (500 mg/kg; i.p.; twice a day) completely reverses both Methotrexate- and Tomudex-induced deletion of both CD4+Vβ8+ and CD8+Vβ8+ T cells^[3].

References

- [1]. Chen G, et al. Cell Synchronization by Double Thymidine Block. *Bio Protoc.* 2018 Sep 5;8(17).
- [2]. FIRKET H, et al. Autoradiographic visualization of synthesis of deoxyribonucleic acid in tissue culture with tritium-labelled thymidine. *Nature.* 1958 Jan 24;181(4604):274-5. FIRKET H, et al. Autoradiographic visualization of synthesis of deoxyribonucleic acid in tissue culture with tritium-labelled thymidine. *Nature.* 1958 Jan 24;181(4604):274-5.
- [3]. Izeradjene K, et al. Inhibition of thymidine synthesis by folate analogues induces a Fas-Fas ligand-independent deletion of superantigen-reactive peripheral T cells. *Int Immunol.* 2001 Jan;13(1):85-93.

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.

Please inquire for higher quantities (availability, shipment conditions).

Please contact InterBioTech – Interchim for any other information

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