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Produktinformation



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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

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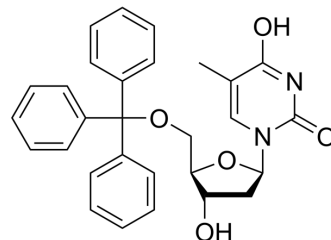
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5'-O-Tritylthymidine

Cat. No.:	HY-W008907
CAS No.:	7791-71-1
Molecular Formula:	C ₂₉ H ₂₈ N ₂ O ₅
Molecular Weight:	484.54
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (206.38 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.0638 mL	10.3191 mL	20.6381 mL
	5 mM		0.4128 mL	2.0638 mL	4.1276 mL
	10 mM		0.2064 mL	1.0319 mL	2.0638 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 5 mg/mL (10.32 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 5 mg/mL (10.32 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

5'-O-Tritylthymidine is an inhibitor of TK-2 and inhibits angiogenesis^[1]. 5'-O-Tritylthymidine targets FAK-Mdm-2 interactions, decreasing cell viability and increasing apoptosis.

REFERENCES

- [1]. Hernández A et al. Acyclic nucleoside analogues as novel inhibitors of human mitochondrial thymidine kinase. J Med Chem. 2002 Sep 12;45(19):4254-63.
- [2]. Hernández A et al. Acyclic nucleoside analogues as novel inhibitors of human mitochondrial thymidine kinase. J Med Chem. 2002 Sep 12;45(19):4254-63.

[3]. Golubovskaya V et al. A small-molecule inhibitor, 5'-O-tritylthymidine, targets FAK and Mdm-2 interaction, and blocks breast and colon tumorigenesis in vivo. *Anticancer Agents Med Chem*. 2013 May;13(4):532-45.

[4]. Golubovskaya V et al. A small-molecule inhibitor, 5'-O-tritylthymidine, targets FAK and Mdm-2 interaction, and blocks breast and colon tumorigenesis in vivo. *Anticancer Agents Med Chem*. 2013 May;13(4):532-45.

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

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