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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

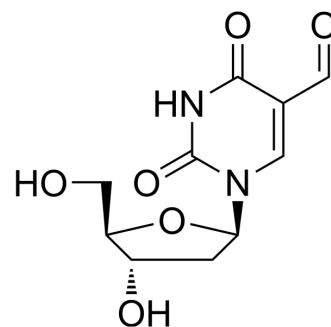
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5-Formyl-2'-deoxyuridine

Cat. No.:	HY-W341499
CAS No.:	4494-26-2
Molecular Formula:	C ₁₀ H ₁₂ N ₂ O ₆
Molecular Weight:	256.21
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, stored under nitrogen
	* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 200 mg/mL (780.61 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.9030 mL	19.5152 mL	39.0305 mL
	5 mM		0.7806 mL	3.9030 mL	7.8061 mL
	10 mM		0.3903 mL	1.9515 mL	3.9030 mL

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

BIOLOGICAL ACTIVITY

Description

5-Formyl-2'-deoxyuridine is a product formed when the 5-methyl group of thymine in DNA undergoes oxidation due to exposure to gamma radiation or certain chemical agents. Serving as a biomarker of oxidative DNA damage, 5-formyl-2'-deoxyuridine is employed in investigations of DNA damage and repair mechanisms. Additionally, 5-Formyl-2'-deoxyuridine can be used in studies involving chemically crosslinking with peptides derived from the RecA protein^[1].

REFERENCES

[1]. Sugiyama T, et al. Chemical cross-linking of peptides derived from RecA with single-stranded oligonucleotides containing 5-formyl-2'-deoxyuridine[J]. Nucleosides, Nucleotides and Nucleic Acids, 2001, 20(4-7): 1079-1083.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA