

Product Datasheet

5-Ethynyl-uridine (5-EU) (orb65697)

Catalog Number	orb65697
Category	Small Molecules
Description	Ethynyl-labeled uridine (5-EU) can be used as a replacement for BrU (5-Bromo-uridine) to measure de novo RNA synthesis in proliferating cells. 5-EU is cell permeable and incorporates into nascent RNA instead of its natural analog uridine. The resulting ethynyl-functionalized RNA can subsequently be detected via Cu(I)-catalyzed click chemistry that offers the choice to introduce a Biotin group (via Azides of Biotin) for subsequent purification tasks or a fluorescent group (via Azides of fluorescent dyes) for subsequent microscopic imaging. Long term storage at < -20C. If stored as recommended, Biorbyt guarantees optimal performance of this product for 12 months after date of delivery.
Form/Appearance	solid; Color: white to off-white
Purity	99% (HPLC)
MW	Theoretical MW: 268.22 g/mol; Detected MW: 268.07 g/mol
Application notes	RNA synthesis monitoring. Spectroscopic Propertie : max 286 nm, 12.0 L mmol ⁻¹ cm ⁻¹ (Tris-HCl, pH 7.5).
Solubility (25°C)	Up to 200 mM in 1x PBS or water by heating the obtained, suspension for 1 minute by 70 C, less soluble in DMSO
CAS Number	69075-42-9
Formula	C ₁₁ H ₁₂ N ₂ O ₆
SMILES	<chem>n1(cc(c(=O)[nH]c1=O)C#C)[C@H]1[C@@H]([C@@H]([C@H](O1)CO)O)O</chem>
Storage	store at -20 C
Note	For research use only

Biorbyt Ltd.

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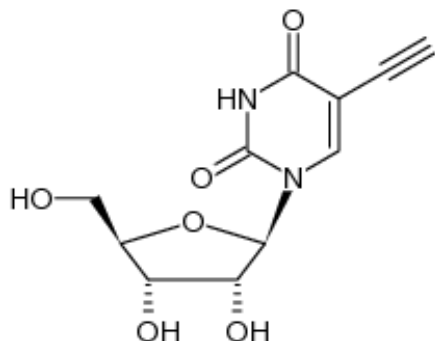
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Expiration Date 12 months from date of receipt.



Chemical structure of using 5-Ethynyl-uridine

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