

VU (5-Vinyl-uridine)

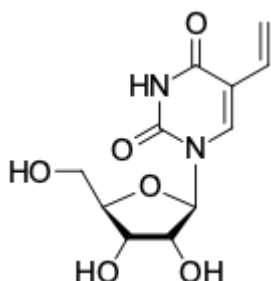
<http://cn.lumiprobe.com/p/vinyl-uridine>

5-Vinyl-uridine (VU) is a uridine derivative with a terminal alkene group that can be used for monitoring and investigating RNA transcription in cells instead of [5-ethynyl-uridine \(EU\)](#).

VU is readily taken up by living cells and incorporated by RNA polymerases into *de novo* RNA instead of endogenous uridine, but not into DNA [1]. VU-labeled nascent cellular RNA can be detected quickly and with high sensitivity via inverse electron-demand Diels-Alder cycloaddition reaction (IEDDA) between the vinyl group and fluorescently or biotin-labeled [tetrazines](#).

Labeled RNA can be detected with different cell transcriptional levels estimation methods, e.g., fluorescent microscopy or flow cytometry.

[1] Liu H.S. et al. A Nucleoside Derivative 5-Vinyluridine (VrU) for Imaging RNA in Cells and Animals. *Bioconjug.Chem.* 2019. 30(11). 2958-2966.



外观:

分子量: 270.24

CAS 编号: 55520-64-4

分子式: $C_{11}H_{14}N_2O_6$

溶解度:

质量控制:

储存条件: