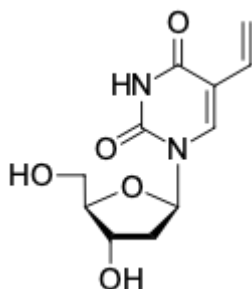


VdU (5-Vinyl-2'-deoxyuridine)

<http://www.lumiprobe.com/p/vdu-vinyl-deoxyuridine>

VdU (5-Vinyl-2'-deoxyuridine) is a synthetic analog of thymidine that can be used to study *de novo* DNA synthesis and cell proliferation. It is a potential replacement for [BrdU \(5-Bromo-2'-deoxyuridine\)](#) or [EdU \(5-Ethynyl-2'-deoxyuridine\)](#).

VdU incorporates into replicating DNA during the S-phase of the cell cycle instead of natural thymidine. The resulting vinyl-functionalized DNA can be detected by introducing either a biotin or fluorescent dye group via a copper-free alkene-[tetrazine](#) reaction (also known as Inverse electron demand Diels-Alder ligation or IEDDA) and used for subsequent DNA purification or cell imaging tasks.



Structure of VdU (5-Vinyl-2'-deoxyuridine)

General properties

Appearance: yellowish solid

Molecular weight: 254.24

CAS number: 55520-67-7

Molecular formula: C₁₁H₁₄N₂O₅

Solubility: in DMSO

Quality control: NMR ¹H and HPLC-MS (95+%)

Storage conditions: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.