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## BrdU (5-Bromo-2'-deoxyuridine)

<http://www.lumiprobe.com/p/brdu-bromo-deoxyuridine>

BrdU (5-Bromo-2'-deoxyuridine) is a synthetic analog of thymidine that can be used to study *de novo* DNA synthesis and cell proliferation. BrdU incorporates into replicating DNA during the S-phase of the cell cycle instead of natural thymidine. The resulting DNA can be detected immunochemically with BrdU-specific antibodies.



### Structure of BrdU (5-Bromo-2'-deoxyuridine)

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#### General properties

Appearance: white crystals

Molecular weight: 307.10

CAS number: 59-14-3

Molecular formula:  $C_9H_{11}BrN_2O_5$

Solubility: in water, DMSO, DMF

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.