

5-BrdU

Catalog No: tcsc3028



Available Sizes

Size: 100mg

Size: 500mg



Specifications

CAS No:

59-14-3

Formula:

$C_9H_{11}BrN_2O_5$

Pathway:

Cell Cycle/DNA Damage

Target:

Nucleoside Antimetabolite/Analog

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 41 mg/mL (133.51 mM)

Alternative Names:

BUdR;BRDU

Observed Molecular Weight:

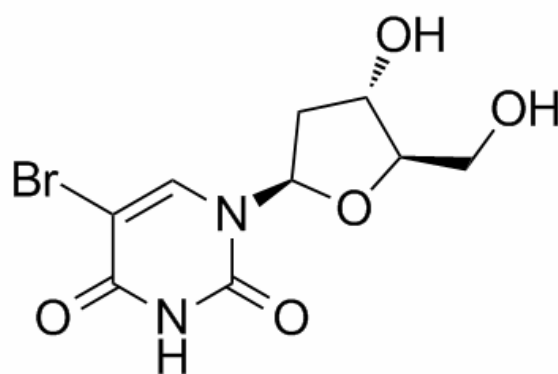
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Product Description

5-BrdU is a nucleoside analog, and competes with thymidine for incorporation into DNA, and is used in the detection of proliferating cells.

In Vitro: Bromodeoxyuridine induces a progressive, dose-responsive suppression of cancer cell line and cancer stem cell population expansion RG2 rat glioma cells. In H9 cells and BJ fibroblasts, bromodeoxyuridine alters the cell cycle profile^[1]. BrdU is stably integrated into the DNA, and thus can be used in assessment of cell proliferation and other cell procession^[2].

In Vivo: Bromodeoxyuridine (300 mg/kg, i.p. or 0.8 mg/mL, p.o.) significantly slows tumor progression in rat glioma RG2 tumor model^[1].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!