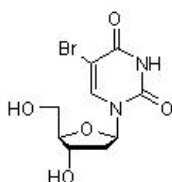


BrdU (5-bromo-2'-deoxyuridine), Thymidine analog ab142567

★★★★★ [1 Abreviews](#) [69 References](#) [3 图像](#)

概述

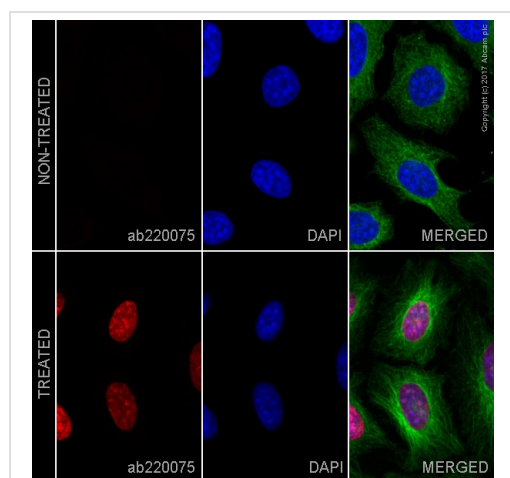
产品名称	BrdU (5-bromo-2'-deoxyuridine), Thymidine analog
描述	Thymidine analog for measuring cell proliferation
纯度	> 98%
CAS编号	59-14-3
化学结构	



性能

化学名称	5-Bromo-1-[(2 <i>R</i> ,4 <i>S</i> ,5 <i>R</i>)-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]pyrimidine-2,4-dione
分子量	307.10
分子式	C ₉ H ₁₁ BrN ₂ O ₅
PubChem识别号	6035
存放说明	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解度概述	Soluble in water to 50 mM
处理	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Toxic, refer to SDS for further information</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
SMILES	<chem>BrC1=CN(C(=O)NC1=O)[C@H]2CC(O)[C@@H](CO)O2</chem>
来源	Synthetic

图片

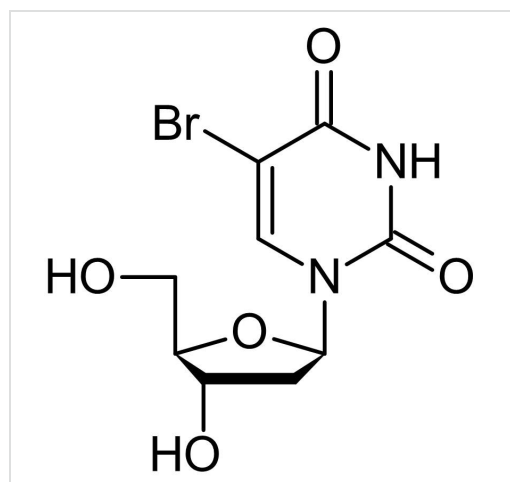


Immunocytochemistry/ Immunofluorescence - BrdU
(5-bromo-2'-deoxyuridine), Thymidine analog
(ab142567)

ab220075 staining BrdU in HeLa cells. Untreated and BrdU treated (ab142567, 10uM for 24 hours) cells were fixed with 100% methanol (5 min) and then subjected to acid hydrolysis using 2M HCL in 0.1% PBS-Tween for 30 minutes at room temperature to denature the DNA. They were then permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with **ab220075** at 1/100 dilution (shown in red) and **ab195887**, Mouse monoclonal to alpha Tubulin (Alexa Fluor® 488), at 1/250 dilution (shown in green). Nuclear DNA was labelled with DAPI (shown in blue).

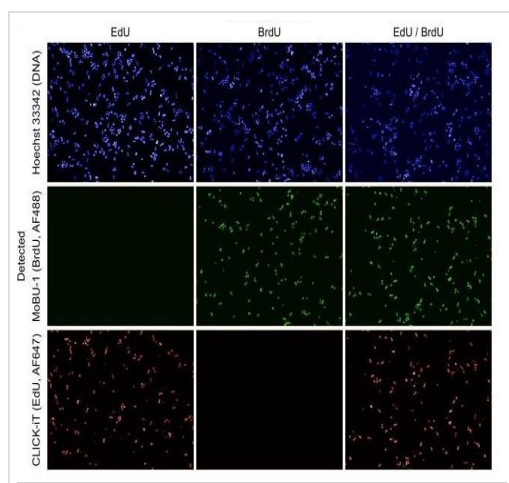
Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

This product also gave a positive signal under the same testing conditions in HeLa cells fixed with 4% formaldehyde (10 min).



Chemical Structure - BrdU (5-bromo-2'-
deoxyuridine), Thymidine analog (ab142567)

2D chemical structure image of ab142567, BrdU (5-bromo-2'-deoxyuridine), Thymidine analog



Estimation of S-phase Duration using EdU-BrdU Dual Pulse Labelling.

(From Figure 5A of Massey)

Functional Studies - BrdU (5-bromo-2'-deoxyuridine),
Thymidine analog (ab142567)

Massey, AJ PLoS One. 2015 Jul 28;10(7):e0134306.
doi: 10.1371/journal.pone.0134306. eCollection 2015.
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