

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

★★★★★ **1 Abreviews** **69 References** 画像数 3

製品の概要

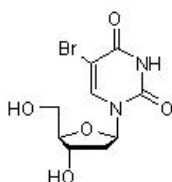
製品名 BrdU (5-bromo-2'-deoxyuridine), Thymidine analog

製品の詳細 Thymidine analog for measuring cell proliferation

精製度 > 98%

CAS 番号 59-14-3

構造式



製品の特性

体系名 5-Bromo-1-[(2*R*,4*S*,5*R*)-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]pyrimidine-2,4-dione

分子量 307.10

分子式 C₉H₁₁BrN₂O₅

PubChem 登録番号 6035

保存方法 Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.

溶解性 Soluble in water to 50 mM

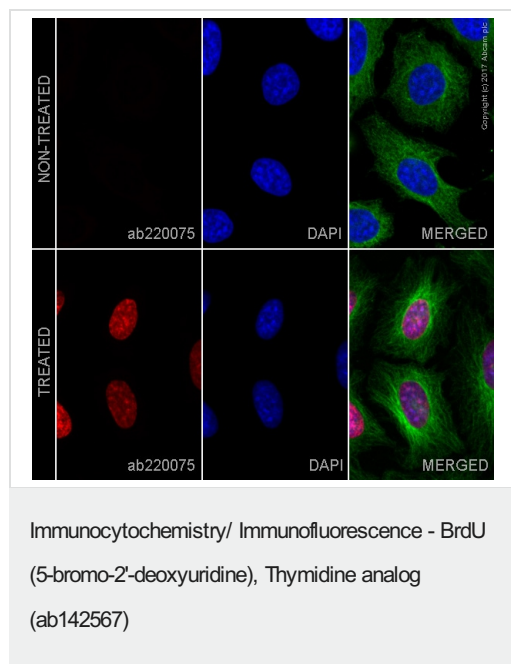
使用に関する注意 Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Toxic, refer to SDS for further information

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

SMILES 線形表記 BrC1=CN(C(=O)NC1=O)[C@H]2CC(O)[C@@H](CO)O2

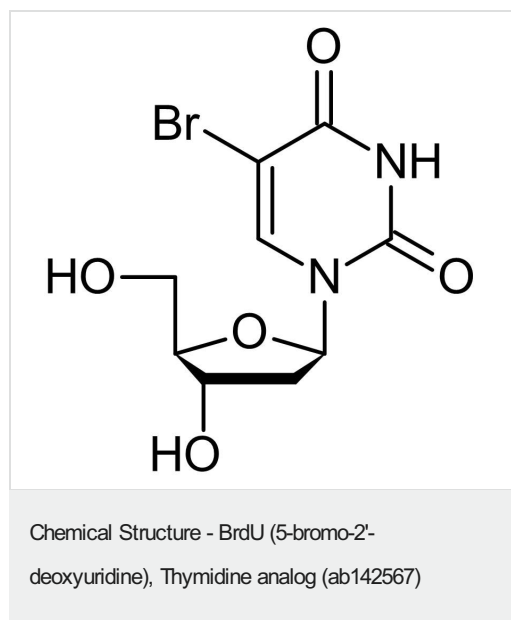
由来 Synthetic



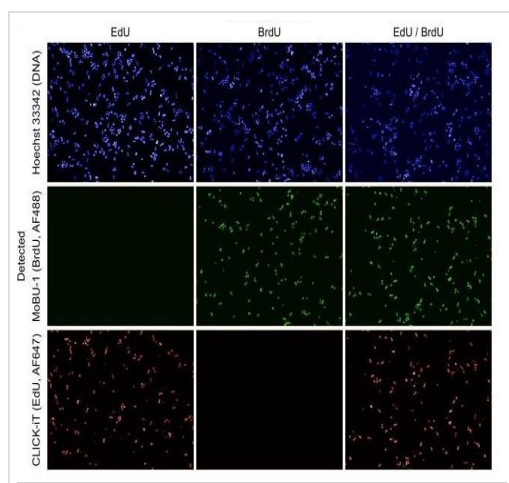
ab220075 staining BrdU in HeLa cells. Untreated and BrdU treated (ab142567, 10uM for 24 hours) cells were fixed with 100% methanol (5 min) and then subjected to acid hydrolysis using 2M HCL in 0.1% PBS-Tween for 30 minutes at room temperature to denature the DNA. They were then permeabilized with 0.1% 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).



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.
Reproduced under the Creative Commons license
<http://creativecommons.org/licenses/by/4.0/>

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors
- Abcam biochemicals are novel compounds and we have not tested their biological activity in house. Please use the literature to identify how to use these products effectively. If you require further assistance please contact the scientific support team