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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

Bromodeoxyuridine (BrdU) Reagent

Background

Bromo-deoxyuridine (BrdU) is a thymidine analog that is used in cell proliferation studies. BrdU in culture is incorporated into the DNA during DNA synthesis. Cellular incorporation of BrdU can be detected by anti-BrdU specific antibodies following membrane permeabilization by flow cytometry or immunohistochemistry. The molecular weight of BrdU is 307.1.

Ordering Information

Catalog Number
X2834

Size
5 x 5 mg

Customer Storage
Product should be stored at -20ºC. Aliquot to avoid freeze/thaw cycles

Formulation
Provided as sterile filtered solution in phosphate buffered saline

Ship Conditions
Ship at ambient temperature, freeze upon arrival

Stability
Products are stable for one year from purchase when stored properly

Comments

Prior to BrdU immunostaining to detect proliferating cells it is necessary to label the cells or tissue with BrdU. Labeling can either be done in vitro for cell cultures or performed in vivo for experimental animals. Both protocols are provided.

Instructions

In vivo labeling of mouse cells with BrdU
Two common methods used for in vivo BrdU labeling of tissues and cells include the intraperitoneal injection of a BrdU-containing solution into mice and the feeding of mice with BrdU that is added to their drinking water.

a) Intraperitoneal Method:
A 10 mg/ml solution of BrdU in sterile 1X DPBS is provided for in vivo use. Inject mice i.p. with 100-200 μl (1-2 mg) of BrdU solution. Incorporation of BrdU can be detected in thymus and bone marrow in as little as 1 hr post injection. 24 hrs post injection BrdU can be detected in most of the tissues.

b) Drinking water method:
Dilute BrdU to 0.8 mg/ml in the drinking water. The BrdU mixture should be made up freshly and changed daily. Prolonged feeding of BrdU can have toxic effects. Some investigators have reported lethal effects associated with 14 days of continuous BrdU feeding. For longer term studies, some investigators have reported that feeding mice with BrdU for 9 consecutive days followed by a change over to normal water has worked effectively. BrdU incorporation by cells from these animals has been detected past 70 days.

Exalpha Biologicals, Inc. 2 Shaker Road, Bldg. B101 Shirley, MA 01464
Tel: 800.395.1137 Fax: 866.924.5100 www.exalpha.com info@exalpha.com