abcam

Product datasheet

Protease Activity Assay Kit (Fluorometric - Red) ab112153

1 References 1 图像

概述

产品名称	Protease Activity Assay试剂盒(Fluorometric - Red)
检测方法	Fluorescent
样品类型	Plasma, Cell culture extracts, Other biological fluids
检测类型	Enzyme activity
检测时间	1h 00m
产品概述	Protease assays are widely used for the investigation of protease inhibitors and detection of protease activities. Monitoring various protease activities has become a routine task for many biological laboratories. Some proteases have been identified as good drug development targets. ab112153 Protease Activity Assay Kit is an ideal choice to perform routine assays for the isolation of proteases, or for identifying the presence of contaminating proteases in protein samples. ab112153 uses a red fluorescent casein conjugate that is proven to be a generic substrate for a broad spectrum of proteases (e.g. trypsin, chymotrypsin, thermolysin, proteinase K, protease XIV, and elastase). In the intact substrate, casein is heavily labeled with a fluorescent dye, resulting in significant fluorescence quenching. Protease-catalyzed hydrolysis relieves its quenching effect, yielding brightly fluorescent dye-labeled short peptides. The increase in fluorescence intensity is directly proportional to protease activity. The assay can be performed in a convenient 96-well or 384-well microtiter plate format. Its signal can be easily read at Ex/Em = 540 /590 nm. ab112153 has been used for screening protease inhibitors in a HTS mode. Visit our **FAQs page** for tips and troubleshooting.
平台	Microplate reader

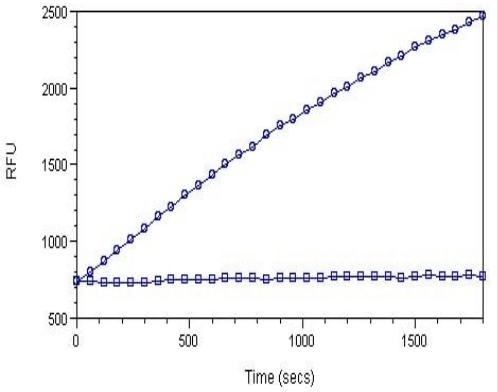
性能

存放说明	Store at -20°C. Please refer to protocols.

组件	500 tests
Assay Buffer	1 x 30ml
Protease Substrate	1 x 300µl

组件	500 tests
Trypsin	1 x 100µl

图片



Functional Studies - Protease Activity Assay Kit (Fluorometric - Red) (ab112153)

Trypsin protease activity was analyzed by using ab112153. Protease substrate was incubated with 3 units of trypsin in the kit assay buffer. The control wells had protease substrate only (without trypsin). The fluorescence signal was measured starting from time 0 when trypsin was added using a fluorescence microplate reader with a filter set of Ex/Em = 540/590 nm. Samples were done in triplicate.

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