CREATIVE BIOMART®
Assay Kit

Beta Secretase Activity Assay Kit

Product Information

Cat.No. Kit-0862

Product Overview

Beta Secretase Activity Assay Kit is a convenient fluorescence method for detecting beta secretase activity in biological and purified samples. The assay uses a secretase-specific peptide conjugated to two reporter molecules, EDANS and DABCYL. In the uncleaved form, the fluorescent signal from EDANS is quenched by the physical proximity of the DABCYL moiety. Cleavage of the peptide by beta secretase physically separates EDANS and DABCYL allowing for the release of a fluorescent signal. The level of secretase enzymatic activity in samples is proportional to the level of fluorescence intensity.

Size

100 x 1 assay

Description

β-Secretase (Beta secretase) is responsible for the proteolytic process of the amyloid precursor protein (APP). It cleaves APP at the N-terminus of the A-beta peptide sequence, between residues 671-672, leading to the generation and extracellular release of beta-cleaved soluble APP, and a corresponding cell-associated C-terminal fragment which is later released by gamma-secretase. It has been implicated to be an excellent target for anti-amyloid therapy for the treatment of Alzheimer''s disease

Applications

Functional Studies

Target Species

Reacts with: Mouse, Rat, HumanPredicted to work with: all Mammals

Storage

Store kit at -20°C in the dark immediately upon receipt. Kit has a storage time of 1 year from receipt, providing components have not been reconstituted.Refer to list of materials supplied for storage

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conditions of individual components. Observe the storage conditions for individual prepared components in section 5.Aliquot components in working volumes before storing at the recommended temperature. Reconstituted components are Stable for 6 months.

Kit Components

Components Identifier 100 testsActive ß -Secretase (Lyophilized) Red 1 vialß -Secretase Extraction Buffer NM 1 x 25mlß -Secretase Inhibitor (in DMSO) Blue 1 x 10µlß -Secretase Reaction Buffer (2X) WM 1 x 10mlß -Secretase Substrate (in DMSO) Amber NM 1 x 200µl

Compatible Sample Types

Urine, Serum, Plasma, Other biological fluids, Cell Lysate, Cell culture media, Tissue Lysate

Assay time

1h 00m

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