

beta-Secretase 1 (BACE 1) Assay Kit | BACE1 assay kit

beta-Secretase 1 (BACE 1) Activity Fluorometric Assay Kit

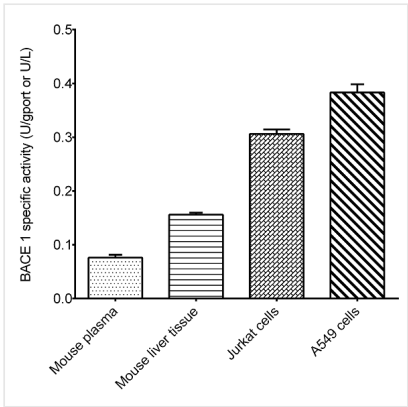
CATALOG #
AAA179637

PRODUCT SYNONYMS

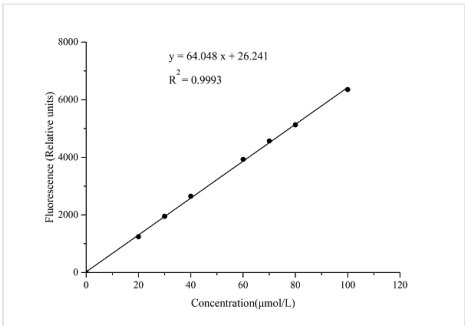
beta-Secretase 1 (BACE 1); beta-Secretase 1 (BACE 1) Activity Fluorometric Assay Kit; BACE 1; BACE1 assay kit

PRODUCT SPECIFICATIONS

Assay Type	Enzyme Activity
Samples	serum, plasma, tissue, cell
Detection Range	0.003-4.75 U/L
Sensitivity	0.003 U/L
Detection Type	Fluorescence method
Detection Instrument	Fluorescence Microplate Reader
Precision	Inter CV: 4.7-10.4 Intra CV: 2.2-3.2
Research Area	Amino Acids and Proteins
Test Principle	beta-Secretase 1 is an aspartic protease, the full name is beta-site amyloid precursor protein cleavage enzyme 1(BACE 1). BACE 1 cleaves amyloid precursor protein (APP) to produce amyloid-beta peptide (Abeta) of 40 or 42 amino acids. The deposition of Abeta in plaques and vessel walls in the brains of patients with Alzheimer's disease is widely believed to be the major contributor to the disease. The detection principle of this kit is fluorescence resonance energy transfer (FRET) method. A fluorescence donor group and a quenching group are divided at both ends of the substrate. The fluorescence energy is transferred from the fluorescence donor to the quenching group, resulting in the attenuation of the fluorescence intensity of the fluorescence donor molecule itself. When the substrate is cleaved by BACE 1, the quenching group of the substrate and the fluorescent donor are separated and the fluorescent donor is no longer quenched, the fluorescence of the fluorescent donor can be detected, so that the enzymatic activity of BACE 1 can be calculated. The fluorescence produced by this kit had a maximum excitation wavelength of 325 nm and a maximum absorption wavelength of 393 nm.
Preparation and Storage	This product can be stored at -20 degree C for 12 months with shading light. Shipping: Ice bag



Application Data



ADDITIONAL INFORMATION

Product Categories/Family for BACE1 assay kit	Cell Metabolism Assays; Amino Acids and Proteins
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/bace1-assay-kits/beta-secretase-1-bace-1/179637>