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50% off

Assay Kits

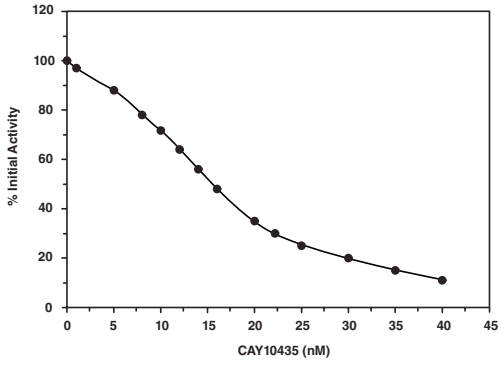
Take advantage of our Quarterly Special and receive 50% off our catalog list price on these assay kits September 1, 2009 through November 30, 2009.

FAAH Inhibitor Screening Assay Kit 10005196

Stability: ≥6 months at -80°C

The endocannabinoid system is a ubiquitous lipid signaling system involved in various regulatory functions throughout the body. The primary endocannabinoids, arachidonoyl ethanolamide (AEA) and 2-arachidonoyl glycerol (2-AG), are released upon demand from lipid precursors and bind to cannabinoid (CB_1) receptors in the brain or CB_2 receptors in the peripheral tissues. Fatty acid amide hydrolase (FAAH) is a cytosolic serine hydrolase responsible for the degradation of fatty acid amides, including AEA. Finding inhibitors to FAAH could offer a beneficial approach toward the treatment of pain, obesity, and various neurological diseases where higher endocannabinoid activity would be beneficial. Cayman's FAAH Inhibitor Screening Assay Kit provides a convenient fluorescence-based method for screening FAAH inhibitors. FAAH hydrolyzes AMC-arachidonoyl amide resulting in the release of the fluorescent product, 7-amino-4-methylcoumarin (AMC). The fluorophore can be easily analyzed using an excitation wavelength of 340-360 nm and an emission wavelength of 450-465 nm.

Call or email for pricing and availability

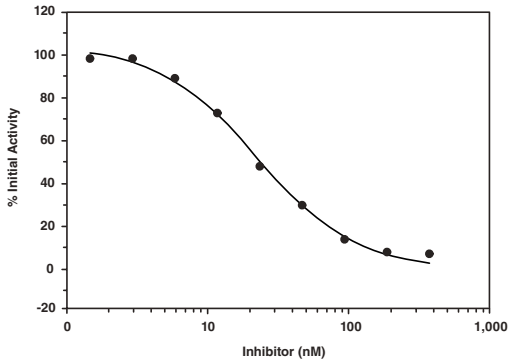


BACE Inhibitor Screening Assay Kit 600070

Stability: ≥6 months at -20°C

Accumulation of the β-amyloid peptide (Aβ) in the brain is implicated in Alzheimer's disease.The β-amyloid peptide is derived from sequential proteolytic cleavage of the amyloid precursor protein (APP) by β- and γ-secretases. Initial cleavage by β-secretase (BACE; β-site of APP cleaving enzyme), a membrane anchored aspartic protease, generates a soluble N-terminal fragment and a membrane-associated C-terminal fragment. The C-terminal fragment then undergoes proteolysis by γ-secretase to give the Aβ peptide. BACE has been shown to be the major β-secretase and a promising therapeutic target as this protease initiates the first step in Aβ production. BACE deficient mice do not generate Aβ peptide. In transgenic murine models of AD driven by Aβ overproduction, BACE deficiency rescues memory deficits and cholinergic dysfunction. Cayman's BACE Inhibitor Screening Assay Kit provides a convenient method for screening human BACE inhibitors. The assay utilizes a synthetic Swedish mutant APP peptide (EVNLDAEF) that has been linked to a fluorophore (EDANS) at one end and to a quenching agent (Dabcyl) at the other. After cleavage by BACE, the product (peptide-EDANS) is brightly fluorescent and can be easily analyzed using a fluorescence plate reader or a fluorometer with excitation wavelengths of 335-345 nm and emission wavelengths of 485-510 nm.

Call or email for pricing and availability



Offer ends 11/30/09