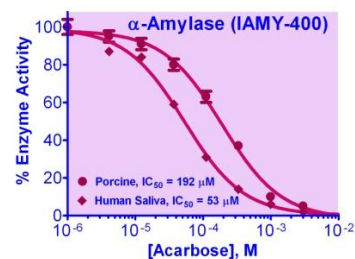


CD α -Amylase Inhibitor Screening Kit

Catalog Number: AKBA183

Size: 400 tests in a 384-well plate

Price: [Online Inquiry](#)



Product Information

Product Name	CD α -Amylase Inhibitor Screening Kit
Applications	For evaluation of drugs and screening potential inhibitors of α -amylase.
Features	Safe. Non-radioactive assay. Fast and convenient. Homogeneous “mix-incubate-measure” type assay. Can be completed in under an hour at room temperature. Robust and High-throughput. A Z'-factor of >0.90 was observed in a 384-well format. Can be readily automated to assay thousands of samples per day.
Detection Method	FP485/520 nm
Sample Type	Compounds that affect α -amylase activity
Species	All
Assay Time	40 min
Limit of Detection	NA
Expiration Date	6 months
Description	<p>AMYLASE belongs to the family of glycoside hydrolase enzymes that break down starch into glucose molecules by acting on α-1,4-glycosidic bonds. The α-amylases (EC 3.2.1.1) cleave at random locations on the starch chain, ultimately yielding maltotriose and maltose, glucose, and “limit dextrin” from amylose and amylopectin. In mammals, α-amylase is a major digestive enzyme. Increased enzyme levels in humans are associated with salivary trauma, mumps due to inflammation of the salivary glands, pancreatitis, and renal failure. Simple, direct, and automation-ready procedures for measuring α-amylase inhibition are highly desirable in Research and Drug Discovery. BioAssay Systems’ α-Amylase Inhibitor Screening Kit utilizes fluorescence polarization (FP) to screen for potential α-amylase inhibitors. In this assay, α-amylase cleaves a fluorescent amylose substrate. The decrease in FP is directly proportional to the α-amylase activity in the sample. Inhibition is therefore determined by the increase in FP ($\lambda_{ex}/em = 485/520$ nm).</p>
Shipping Conditions	Shipping: RT
Storage	Storage: -20°C upon receipt.