SPECIFICATIONS AND USE

Fluorescent Substrate: MCA-PRYEAYKMGK(DNP)-NH_2

Catalog Number: PEPMCA001

Use: This fluorescent peptide substrate is used primarily to assess activity of ADAM10 and is a selective substrate for ADAM10. The substrate is based on the TENtide sequence discussed in the reference below.Typically, the peptide is dissolved in DMSO to make a stock solution of about 2mM concentration. When used for in vitro assays, the substrate is often used at about 2μM concentration. For use with ADAM10, the buffer should consist of 25mM Tris, pH 8, 100mM NaCl, 6 x 10^{-4} Brij detergent, and 10mM $CaCl_2$. Excitation and emission wavelengths are 325 and 393 nm respectively.

Molecular Weight: 1623.8 g/mol

Purity: Greater than 94% as assessed by HPLC and Mass Spectrometry.

Solubility: 1 mg/ml in water with 30% ACN

Appearance: Yellow lyophilized powder

Counter Ion: Trifluoroacetate

Shipping: The peptide powder is shipped at room temperature.

Storage: Upon receiving, the peptide should be stored at -20 ^{o}C or lower. If dissolved in liquid (such as DMSO), aliquot into separate tubes to minimize the number of freeze-thaw cycles.

Stability: Samples are stable up to 6 months at -20^{o}C.

Specificity: The substrate is specific for ADAM10

References: Active site determinants of substrate recognition by the metalloproteinases TACE and ADAM10. Cristina I. Caescu, Grace R. Jeschke, and Benjamin E. Turk, Biochemical Journal, (2009), 424(1), 79-88.

BioZyme, Inc.
1513 Old White Oak Church Road
Apex, NC 27523-9299 USA
919-362-1339