



## **ADAM10 SELECTIVE SUBSTRATE II**

### **Fluorescent Substrate: Acetyl-dArg(3)-dGlu(3)-hexaminoyl- K(Dabcyl)-PRYEAYKMGK(5FAM)-C-NH<sub>2</sub>**

**Catalog Number:** PEPDAB063

**Use:** This fluorescent peptide substrate can be used to assess activity of ADAM10, and is specific for ADAM10. The substrate has a charged tail which is intended to keep it outside the cell so that proteolysis will only occur on the cell surface. Typically, the peptide is dissolved in DMSO to make a stock solution of about 10mM concentration. When used for in vitro assays, the substrate is often used at about 10 $\mu$ M concentration. For use with ADAM10, the buffer should contain 50 mM Tris, pH 7.5, 150 mM NaCl, 10 mM CaCl<sub>2</sub>, and 0.003% Brij-35. Excitation and emission wavelengths are 485 and 530 nm respectively.

**Molecular Weight:** 3093.5 g/mol

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

**Solubility:** 1 mg/ml in water with 10% Formic acid

**Appearance:** Red lyophilized powder

**Shipping:** The peptide powder is shipped at room temperature.

**Storage:** Upon receiving, the peptide should be stored at -70 °C. Avoid repeated freeze-thaw cycles. 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 1 month at -70°C.

