



SPECIFICATIONS AND USE

Fluorescent Substrate: Dabcyl-VDLFYLQQPK(5FAM)-NH₂

Catalog Number: PEPDAB015

Use: This fluorescent peptide substrate is used primarily to assess activity of ADAMs and MMPs.

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 μ M concentration. Remember to keep the DMSO concentration in the final reaction at 1% or below, to avoid DMSO effects on the reaction, and remember to have an equivalent percentage of DMSO in the background wells.

For use with ADAMs, the buffer should consist of 25mM Tris, pH 8, 6 x 10⁻⁴ Brij detergent, and 10mM CaCl₂. If used with ADAM17 or ADAM10, the CaCl₂ is not required.

Excitation and emission wavelengths are 485 and 530 nm respectively.

Molecular Weight: 1858.9 g/mol

Purity: Greater than 95% as assessed by HPLC and Mass Spectrometry.

Solubility: 1 mg/ml in water

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 6 months at -70°C.

References:

1. [Proteolytic Activity Matrix Analysis \(PrAMA\) for simultaneous determination of multiple protease activities. Miles A Miller, Layla Barkal, Karen Jeng, Andreas Herrlich, Marcia Moss, Linda G Griffith, Douglas A Lauffenburger](#) Integrative Biology 12/2010; 3(4):422-38.