



MMP9 SUBSTRATE II

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

Catalog Number: PEPDAB017

Use: This fluorescent peptide substrate is used primarily to assess activity of MMPs and is most active with MMP13. It is selective for MMP9 over MMP2. 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. For use with the MMPs, the buffer should contain 50 mM Tris, pH 7.5, 150 mM NaCl, 2 mM CaCl₂, 5 μ M ZnSO₄, and 0.01% Brij-35. Excitation and emission wavelengths are 485 and 530 nm respectively.

Molecular Weight: 1621.6 g/mol

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

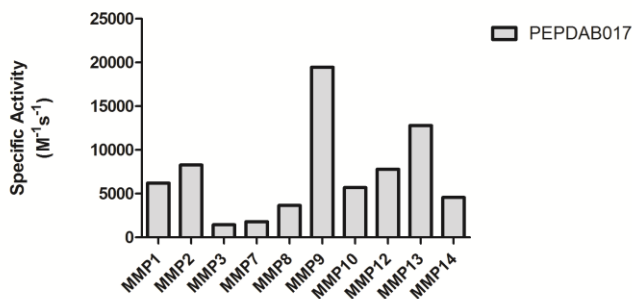
Solubility: 1 mg/ml in water

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: [Proteolytic Activity Matrix Analysis \(PrAMA\) for Simultaneous Determination of Multiple Protease Activities.](#) Miller MA, et al. Integr Biol (Camb). 2011 Apr; 3(4): 422–438. doi: 10.1039/c0ib00083c