



## MMP9 SUBSTRATE

### Fluorescent Substrate: Dabcyl-APFEMSAK(5FAM)-NH<sub>2</sub>

**Catalog Number:** PEPDAB052

**Use:** This fluorescent peptide substrate is used primarily to assess activity of MMPs. It provides good selectivity since it is not processed very well by the ADAMs tested. Its specificity constant is selective for MMP9. When used for in vitro assays, the substrate is often used at about 10  $\mu$ M concentration. For use with the MMPs, the buffer should contain 50 mM Tris, pH 7.5, 150 mM NaCl, 2 mM CaCl<sub>2</sub>, 5  $\mu$ M ZnSO<sub>4</sub>, and 0.01% Brij-35. Excitation and emission wavelengths are 485 and 530 nm respectively.

**Molecular Weight:** 1488.4

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

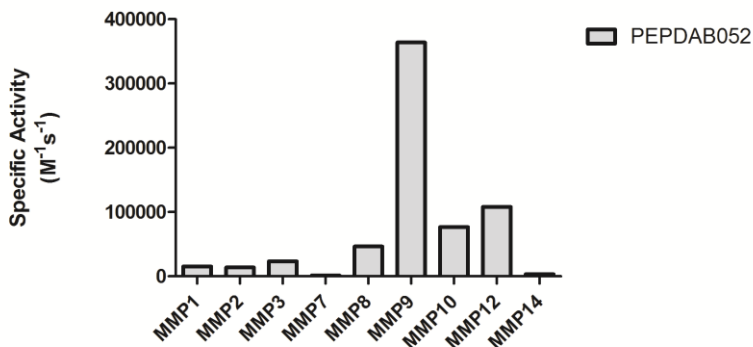
**Solubility:** 1 mg/ml in water

**Appearance:** Red 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

[Multiplexed protease activity assay for low-volume clinical samples using droplet-based microfluidics and its application to endometriosis](#). Chen CH, et al. J Am Chem Soc. 2013 Feb 6;135(5):1645-8. doi: 10.1021/ja307866z