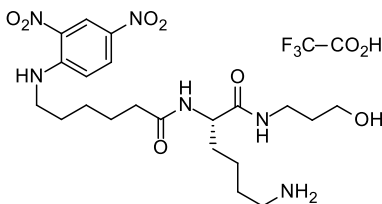


# Product Data Sheet



Product Number **D008**  
Revision Number **RN2.0**

<b>Product Name</b>	DALP
<b>Synonyms</b>	(S)-6-Amino-2-(6-(2,4-dinitrophenylamino)hexanamido)-N-(3-hydroxypropyl)hexanamide trifluoroacetate; 3-[N <sup>α</sup> [N <sup>ε</sup> -(2', 4'-dinitrophenyl)-amino-n-hexanoyl]-L-lysylamido]-propane-1-ol
<b>Quantity</b>	5 mg
<b>Application</b>	Amine donor substrate for transglutaminases. In the parent molecule DALP-methyl carbamate (D009) the lysine side chain is protected by a carbamoyl moiety rendering the molecule membrane permable. In contrast DALP itself does not show considerable uptake by cells. The K <sub>m</sub> of DALP is 3 μM and therefore about 50 times lower than that of N-biotinylcadaverine (B002). DALP is non-toxic in cell culture below 1 mM. The dinitrophenyl moiety incorporated into substrate proteins can be detected by a suitable anti-DNP-antibody or by HPLC at 365 nm detection wavelength.
<b>Molecular Formula</b>	C <sub>23</sub> H <sub>35</sub> F <sub>3</sub> N <sub>6</sub> O <sub>9</sub> (free base: C <sub>21</sub> H <sub>34</sub> N <sub>6</sub> O <sub>7</sub> )
<b>Molecular Weight</b>	596.55 (free base: 482.53)
<b>Chemical Structure</b>	
<b>Purity by HPLC</b>	>95 % (214 nm)
<b>Solubility</b>	25 μM in 0.4% (v/v) DMSO / aqueous buffers Pre-dissolve e.g. 3.72 mg in 1 ml DMSO (6.25 mM stock) - dilute 1:250 with buffer to obtain a 25 μM solution. DMSO-stock-solution can be stored at -20°C for at least 4 weeks.
<b>Appearance</b>	Yellow resin-like solid
<b>Storage</b>	Store at -20°C, desiccate
<b>Related Products</b>	D009 DALP-methyl carbamate T002 Human tissue transglutaminase (hTG2)
<b>Reference(s)</b>	Nemes, Z. Jr. <i>et al. J Biol Chem.</i> <b>1997</b> , 272, 20577. Kiraly, R. <i>et al. FEBS J.</i> <b>2011</b> , 278, 4717 (Review).
<b>NOTE</b>	INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.