

# Product Data Sheet



Product number **B009**  
Revision number **RN3.0**

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| <b>Product Name</b>      | Epidermal transglutaminase (TG3)-substrate-peptide E51                                                                                                                                                                                                                |
| <b>Synonym</b>           | Biotinyl-PPPYSFYQSRWV                                                                                                                                                                                                                                                 |
| <b>Quantity</b>          | 10 mg                                                                                                                                                                                                                                                                 |
| <b>Application</b>       | Transglutaminase specific glutamine donor substrate                                                                                                                                                                                                                   |
| <b>Molecular Formula</b> | $C_{85}H_{113}N_{19}O_{20}S$                                                                                                                                                                                                                                          |
| <b>Molecular Weight</b>  | 1752.99                                                                                                                                                                                                                                                               |
| <b>Purity by HPLC</b>    | >95 % (220 nm)                                                                                                                                                                                                                                                        |
| <b>Solubility</b>        | stock solution: 100 mM in DMSO<br>concentration (assay): 500 $\mu$ M                                                                                                                                                                                                  |
| <b>Appearance</b>        | off-white solid                                                                                                                                                                                                                                                       |
| <b>Storage</b>           | store at -20°C, desiccate                                                                                                                                                                                                                                             |
| <b>Related products</b>  | T002 Human tissue transglutaminase<br>B007 Biotinyl-YEQHKLPSSWPF<br>B008 Biotinyl-HQSYVDPWMLDH<br>B010 Biotinyl-DQMMLPWPAVAL                                                                                                                                          |
| <b>Reference(s)</b>      | Sugimura, Y. <i>et al. J. Biol. Chem.</i> <b>2006</b> , 281, 17699.<br>Sugimura, Y. <i>et al. FEBS J.</i> <b>2008</b> , 275, 5667.<br>Yamane, A. <i>et al. FEBS J.</i> <b>2010</b> , 277, 3564.<br>Schulze-Krebs, A. <i>et al. Brain Res.</i> <b>2016</b> , 1631, 22. |
| <b>Release date</b>      | 29 November 2021                                                                                                                                                                                                                                                      |
| <b>NOTE</b>              | INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.                                                                                                                                                                         |