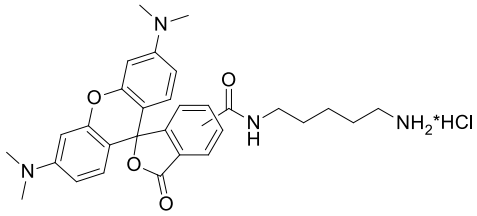
Product Data Sheet

Product number **R001**
Revision number RN4.0

Product Name	N-(Tetramethylrhodaminyl)cadaverine N-(TAMRA)cadaverine
Application	Fluorescent amine donor substrate for transglutaminases
Fluorescence	λ_{ex} = 547 nm; λ_{em} = 573 nm[1] [1] Aneja A. *et al. J. Biol. Phys.* **2008**, *34*, 487.
Molecular Formula	$C_{30}H_{35}ClN_4O_4$ (free base: $C_{30}H_{34}N_4O_4$)
Molecular Weight	551.08 (free base: 514.62)
Chemical Structure	
Purity by HPLC	>95 % (214 nm)
Solubility	4 mM in aqueous buffers (50mM Tris, pH 7,5)
Appearance	Deep red crystalline solid
Storage	Store at -20°C, desiccate, protect from long-term exposure to light
Related products	T001 Bacterial transglutaminase C090 Z-Gln-Gly-CAD-TAMRA
Reference(s)	Kasprzak, A. A. *et al. Biochemistry* **1988**, *27*, 4512. Lee, K. *et. al. J. Biotechnol.* **2013**, *168*, 324. Dennler, P. *et al. Chembiochem* **2015**, *16*, 861.
Release date	23 December 2021
NOTE	INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.