

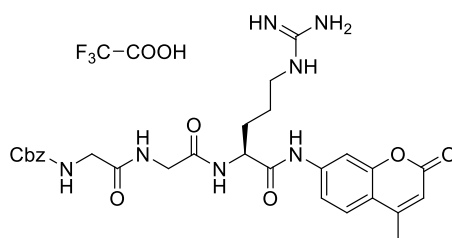
Product Data Sheet



Product number Z020
Revision number RN1.1

Product Name Thrombin-Generation-Assay Substance, fluorescent
Synonym Z-Gly-Gly-Arg-AMC
Salt Form Trifluoroacetate
Application "Slow" acting thrombin substrate for the determination of thrombin generation in plasma
Also suitable for urokinase, trypsin, and tissue-type plasminogen
Molecular Formula C₃₀H₃₄F₃N₇O₉ (free base: C₂₈H₃₃N₇O₇)
Molecular Weight 693.63 (free base: 579.60)
Spectral properties λ_{ex} = 330-360 nm, λ_{em} = 430-460 nm
Kinetic Parameters K_m = 79 μM; v_{max} = 0.11 μM/min (5 nM thrombin)

Chemical Structure



Purity by HPLC >95 % (214 nm)

Solubility 50 μM in 0.1% (v/v) DMSO / aqueous buffers
Pre-dissolve e.g. 10 mg (14.4 μmol) in 288 μl DMSO - dilute e.g. 10 μl of that stock solution (50 mM) with 9,990 μl aqueous buffer to obtain a 50 μM solution.
DMSO stock solutions can be stored at -20°C for at least 6 months. To avoid too many freeze-thaw cycles, we strongly recommend storage of aliquots.

Appearance Pale yellow solid

Storage Store at -20°C, desiccate

Related products T056 Human alpha thrombin, highly active
T222 Human alpha thrombin, recombinant
D017 Thrombin-Assay Substance, highly sensitive fluorogenic thrombin substrate

Reference(s) Kintigh J. *et al. Res. Pract. Thromb. Haemost.* **2017**, 2, 42-48.
Devreese K. *et al. Thromb. Haemost.* **2007**, 98, 600-613.
Hemker H.C. *et al. Pathophysiol. Haemost. Thromb.* **2002**, 32, 249-253.
Zimmerman M. *et al. PNAS* **1978**, 75, 750-753.

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