

# pGlu-Gly-Arg-7-Amino-4-Trifluoromethylcoumarin Trifluoroacetate Salt

Product Number **P 5615** Storage Temperature –20 °C

## **Product Description**

Molecular formula: C<sub>27</sub>H<sub>28</sub>F<sub>6</sub>N<sub>7</sub>O<sub>8</sub>

Molecular weight: 781.5

pGlu-Gly-Arg-7-Amino-4-Trifluoromethylcoumarin (pGlu-Gly-Arg-AFC) is a fluorogenic substrate designed for the determination of urokinase activity and tissue plasminogen activator (t-PA) activity. Upon substrate hydrolysis the free AFC produced can be quantified by fluorometric detection (excitation 400 nm, emission 505 nm) or by spectrophotometric detection at 380 nm (extinction coefficient = 12,600 at pH 7.2).

Urokinase and t-PA are fibrinolytic serine proteases that convert plasminogen to plasmin, which then dissolves fibrin.

# **Preparation Instructions**

20 mM stock solutions (15.63 mg/ml) of pGlu-Gly-Arg-AFC can be prepared in DMSO. Also soluble in DMF.

# **ProductInformation**

## Storage/Stability

Store solid or solutions at -20 °C. Material stable for at least one year, if stored as recommended.

## Reference

- 1. Barrett, A.J., et. al. Mammalian Protease, **1**, 132 (1980).
- 2. Smith, R. E., et al., Direct photometric or fluorometric assay of proteinases using substrates containing 7-amino-4-trifluoromethylcoumarin. Thromb. Res., **17**, 393-402 (1980).
- Lojda, Z., The use of substrates with 7-amino-3trifluoromethylcoumarine (AFC) leaving group in the localization of protease activities in situ. Acta Histochem., 98, 215-28 (1996).
- Cejkova J. The appearance and possible role of plasminogen activator of urokinase type (u-PA) activity in the cornea related to soft contact lens wear in rabbits. Doc. Ophthalmol., 95, 165-79 (1998).

JXU/JWM 11/01