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

Product Number P 5615
Storage Temperature –20 °C

Product Description
Molecular formula: C_{27}H_{28}F_{6}N_{7}O_{8}
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.

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

Reference
(1980).
2. Smith, R. E., et al., Direct photometric or
fluorometric assay of proteinases using substrates
containing 7-amino-4-trifluoromethylcoumarin.
3. Lojda, Z., The use of substrates with 7-amino-3-
trifluoromethylcoumarine (AFC) leaving group in
the localization of protease activities in situ. Acta
4. 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. Ophthalmo., 95, 165-79