Catalogue Number	ENZ-264
Synonyms	Urokinase, Abbokinase, Urokinase-type Plasminogen Activator,uPA, EC 3.4.21.73, UK.
Introduction	Urokinase (UK) is a serine protease, which is one of biological plasminogen activators. It is involved in a number of biological functions including fibrinolysis, embryogenesis, cell migration, tissue remodeling, ovulation, and wound healing. It can be obtained from human urine or kidney cell culture.
Description	Urokinase is a two-chain glycoprotein containing 411 amino acids with 12 disulfide bonds. Its molecular weight is 54,000 Dalton.
Source	Human urine.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	The Urokinase was lyophilized from a concentrated (1mg/ml) solution containing phosphate buffer.
Solubility	It is recommended to reconstitute the lyophilized Urokinase in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Stability	Lyophilized Urokinase although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Urokinase should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
Purity	Greater than 90.0% as determined by SDS-PAGE.
Specific Activity	83,700IU/mg.
Activity	1nM UK will cause a change in absorbance of 0.001 at 405nm in 1 minute at R/T in 100 ul 0.05M Tris-HCl, 0.1M NaCl, pH 7.4, using S2444 (0.6mM) as the substrate.
Contaminants	Free of: Hepatitis B surface antigen, Hepatitis C antibody and HIV I and II.
References	1. **Title**:Transient ?-catenin stabilization modifies lineage output from human thymic $CD34^{+}CD1a^{-}$ progenitors. **Publication**:Published online before print December 1, 2009, doi: 10.1189/jlb.0509344March 2010 Journal of Leukocyte Biology vol. 87 no. 3 405-414 . **Link**:http://www.jleukbio.org/content/87/3/405.full 2.**Title**:Activation of human pro-urokinase by unrelated proteases secreted by Pseudomonas aeruginosa.

	Publication:Received 26 November 2009/18 March 2010; accepted 2 **Link**:http://www.biochemj.org/bj/428/0473/bj4280473.htm
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