



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Native Human Urokinase

Catalog No.
228-11601

Source
Human urine

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.

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.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Specific Activity

83,700 IU/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.

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