

Urokinase, human recombinant protein

Two chain urokinase-type plasminogen activator (tcuPA), PLAU, ATF, UPA, URK, u-PA, BDPLT5 QPD
Catalog # PBV11272r

Specification

Urokinase, human recombinant protein - Product info

Primary Accession
Calculated MW

[P00749](#)

The active Urokinase is a two-chain glycoprotein and has a calculated MW of 49.3 kDa. DTT-reduced Protein migrates as two bands corresponding to the two chains with the molecular mass of 28.3 and 21 kDa. KDa

Urokinase, human recombinant protein - Additional Info

Gene ID
Gene Symbol
Other Names

5328
PLAU

Two chain urokinase-type plasminogen activator (tcuPA), PLAU, ATF, UPA, URK, u-PA, BDPLT5 QPD

Gene Source
Source
Assay&Purity
Assay2&Purity2
Recombinant
Results

Human
E.coli
SDS-PAGE; ≥90%
HPLC;
Yes
>1500 mU/mg (1 U = Digestion of 1 μmole of Z-GGR-AMC substrate in 1 min at 37°C.)

Target/Specificity
Urokinase

Application Notes

Briefly spin down the vial and reconstitute in water to 0.5-1 mg/ml and store at -80°C.

Format

Lyophilized powder

Storage

-20°C; Lyophilized from proprietary buffer.

Urokinase, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Urokinase, human recombinant protein - Images

Urokinase, human recombinant protein - Background

Urokinase or Urokinase-type plasminogen activator (uPA) is a serine protease (EC 3.4.21.73). It is secreted as a single-chain zymogen, pro-Urokinase, possessing little or no intrinsic enzymatic activity. The single chain zymogen is converted into the active two chain enzyme (tcuPA) by cleavage of the bond between Lys158 and Ile159. After activation, Urokinase specifically cleaves the proenzyme plasminogen to form the active enzyme plasmin. The active plasmin then catalyzes the breakdown of fibrin polymers of blood clots. Urokinase is involved in a number of biological functions including fibrinolysis, embryogenesis, cell migration, tissue remodeling, ovulation, and wound healing. Additionally, it is a potent marker of invasion and metastasis in a variety of human cancers associated with breast, stomach, colon, bladder, ovary, brain and endometrium.

Urokinase, human recombinant protein - References

Holmes W.E., et al. *Biotechnology (N.Y.)* 3:923-929(1985).
Jacobs P., et al. *DNA* 4:139-146(1985).
Nagai M., et al. *Gene* 36:183-188(1985).
Riccio A., et al. *Nucleic Acids Res.* 13:2759-2771(1985).
Kalline N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.