Human KLK-1 / Kallikrein-1 Protein (His Tag)

Catalog Number: **10407-H08H**

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Biological Solution Specialist

General Information

Gene Name Synonym:

hK1; Klk6; KLKR

Protein Construction:

A DNA sequence encoding the human KLK1 (NP_002248.1) precursor (Met 1-Ser 262) was expressed with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio Activity:

Measured by its ability to cleave a flourogenic peptide substrate Pro-Phe-Arg-7-amido-4-methylcoumarin (PFR-AMC). The specific activity is >1,500 pmoles/min/μg. (Activation description: The proenzyme needs to be activated by Thermolysin for an activated form)

Endotoxin:

< 1.0 EU per μg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: Ser 23

Molecular Mass:

The secreted recombinant human KLK1 is a monomeric protein after cleavage of the signal peptide. It consists of 251 amino acids and predictes a molecular mass of 28 kDa. In SDS-PAGE under reducing conditions, it migrates with the apparent molecular mass of 50 kDa due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:

