Recombinant Human KL Protein, His&SUMO-tagged

Cat. No. KL-1071H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KL Protein (Phe765-Ser981) with His&SUMO tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Phe765-Ser981
Description	This gene encodes a type-I membrane protein that is related to beta-glucosidases. Reduced production of this protein has been observed in patients with chronic renal failure (CRF), and this may be one of the factors underlying the degenerative processes (e.g., arteriosclerosis, osteoporosis, and skin atrophy) seen in CRF. Also, mutations within this protein have been associated with ageing and bone loss.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 39.2 kDa; Accurate Molecular Mass: 41 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for

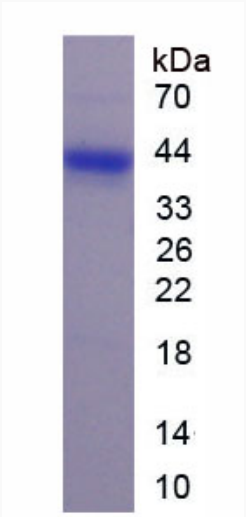
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	48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	KL klotho [Homo sapiens (human)]
Official Symbol	KL
Synonyms	KL; klotho;
Gene ID	9365
mRNA Refseq	NM_004795
Protein Refseq	NP_004786
MIM	604824
UniProt ID	Q9UEF7

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