Active Recombinant Human Klotho, His-tagged

Cat. No. KL-388H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KL(Glu34-Ser981), fused with a C-terminal 6-His tag, was expressed in Mouse NSO Cells.
Species	Human
Source	Mammalian Cells
ProteinLength	34-981 a.a.
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.
Predicted N Terminal	Glu34
Form	Supplied as a 0.2 μm filtered solution in MES, Glycerol and EDTA.
Bio-activity	Measured in a cell proliferation assay using NIH-3T3 mouse embryonic fibroblast cells. The ED50 for this effect is typically 0.025 - 0.1 μg/mL in the presence of 1 μg/mL of rhFGF-23 and 10 μg/mL of Heparin.Measured in a cell proliferation assay using BaF3 mouse pro-B cells transfected with human FGF RIIIc. The ED50 for this effect is typically 0.025 - 0.1 μg/mL in the presence of rhFGF-23 and Heparin.

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Molecular Mass	Predicted Molecular Mass: 109.8 kDaSDS-PAGE: 120-130 kDa, reducing conditions
Endotoxin	< 1.0 EU per 1 μg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Avoid repeated freeze-thaw cycles.12 months from date of receipt, -70 °C as supplied.1 month, 2 to 8 °C under sterile conditions after opening.

GENE INFORMATION

Gene Name	KL klotho [Homo sapiens (human)]
Official Symbol	KL
Synonyms	KL; klotho; NP_004786.2; EC 3.2.1.31
Gene ID	9365
mRNA Refseq	NM_004795
Protein Refseq	NP_004786
MIM	604824
UniProt ID	Q9UEF7
Chromosome Location	13q12
Pathway	Adaptive Immune System; DAP12 interactions; Downstream signaling events of B Cell Receptor (BCR)

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Function	beta-glucosidase activity; fibroblast growth factor binding; fibroblast growth factor receptor binding

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