

Recombinant Human KL

Cat. No. KL-29904TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 34-549 of Human Klotho isoform 2; 516 amino acids, 65-70 kDa.
Species	Human
Source	CHO
ProteinLength	34-549 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.
Tissue specificity	Present in cortical renal tubules (at protein level). Soluble peptide is present in serum and cerebrospinal fluid. Expressed in kidney, placenta, small intestine and prostate. Down-regulated in renal cell carcinomas, hepatocellular carcinomas, and in chro
Biological activity	Biological Activity :Determined by the dose-dependent stimulation of the proliferation of murine NIH3T3 cells.
Form	Lyophilised:Reconstituted KL-29904TH is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.

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Purity	>95% by SDS-PAGE
Storage	Store at -20°C. Stable for 12 months at -20°C
Sequences of amino acids	EPGDGAQTWA RFSRPPAPEA AGLFQGTFPD GFLWAVGSAA YQTEGGWQQH GKGASIWDTF THHPLAPPGD SRNASLPLGA PSPLQPATGD VASDSYNNVF RDTEALRELG VTHYRFSISW ARVLPNGSAG VPNREGLRYY RLLERLREL GVQPVVTLYH WDLQPRLQDA YGGWANRALA DHFRDYAELC FRHFGGQVKY WITIDNPYVV AWHGYATGRL APGIRGSPRL GYLVAHNLLL AHAKVWHLYN TSFRPTQGGQ VSIALSSHWI NPPRMTDHSI KECQKSLDFV LGWFAKPVFI DGDYPESMKN NLSSILPDFT ESEKKFIKGT ADFFALCFGP TLSFQLLDPH MKFRQLESPN LRQLLSWIDL EFNHPQIFIV ENGWFVSGTT KRDDAKYMY LKKFIMETLK AIKLDGVDVI GYTAWSLMDG FEWHRGYSIR RGLFYVDFLS QDKMLLPKSS ALFYQKLIK NGFPPLPENQ PLEGTFPCDF AWGVVDNYIQ VSQLTKEPISS LTKPYH
Sequence Similarities	Belongs to the glycosyl hydrolase 1 family. Klotho subfamily.
GENE INFORMATION	
Gene Name	KL klotho [Homo sapiens]
Official Symbol	KL
Synonyms	KL; klotho;
Gene ID	9365
mRNA Refseq	NM_004795

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Protein Refseq	NP_004786
Uniprot ID	Q9UEF7
Chromosome Location	13q12
Pathway	Ascorbate biosynthesis, animals, glucose-1P => ascorbate, organism-specific biosystem; Ascorbate biosynthesis, animals, glucose-1P => ascorbate, conserved biosystem; Downstream signaling of activated FGFR, organism-specific biosystem;
Function	beta-glucosidase activity; beta-glucuronidase activity; cation binding; fibroblast growth factor binding; fibroblast growth factor receptor binding;

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