Recombinant Human KLB, Fc-tagged

Cat. No. KLB-537H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human βKlotho (aa 1-996) is fused at the C-terminus to the Fc portion of human IgG1.
Species	Human
Source	HEK293
ProteinLength	1-996 a.a.
Description	βKlotho (KLB) induces ERK1/2 phosphorylation in response to FGF19 treatment and significantly increases the interactions between FGF19 and FGFR4. It is a cofactor for the interaction of FGF21 with FGF receptor 1c in adipocytes, which allows FGF21 to stimulate GLUT1 expression, upregulating adipocyte insulin-dependent glucose uptake. bKlotho contributes to the transcriptional repression of cholesterol 7-alpha-hydroxylase (CYP7A1), the rate-limiting enzyme in bile acid synthesis.
Form	Liquid. 0.2μm-filtered solution in PBS.
Molecular Mass	~180kDa (SDS-PAGE)
Purity	≥95% (SDS-PAGE)
Stability	Working aliquots are stable for up to 3 months when stored at -20°C.
Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. After opening, prepare

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	aliquots and store at -20°C. Avoid freeze/thaw cycles.
Concentration	0.05mg/ml

GENE INFORMATION

Gene Name	KLB klotho beta [Homo sapiens]
Official Symbol	KLB
Synonyms	KLB; klotho beta; beta-klotho; betaKlotho; klotho beta like; klotho beta-like protein; BKL; MGC142213;
Gene ID	152831
mRNA Refseq	NM_175737
Protein Refseq	NP_783864
MIM	611135
UniProt ID	Q86Z14
Chromosome Location	4p14
Pathway	Downstream signaling of activated FGFR, organism-specific biosystem; FGF signaling pathway, organism-specific biosystem; FGFR ligand binding and activation, organism-specific biosystem; FRS2-mediated cascade, organism-specific biosystem; IRS-mediated signalling, organism-specific biosystem; IRS-related events, organism-specific biosystem; Insulin receptor signalling cascade, organism-specific biosystem;

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Function	catalytic activity; cation binding; fibroblast growth factor binding; hydrolase activity, hydrolyzing O-glycosyl compounds;

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