

Recombinant Human KLB, Fc-tagged

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

SPECIFICATION

Product Overview	The extracellular domain of human β Klotho (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	β Klotho (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. β Klotho contributes to the transcriptional repression of cholesterol 7- α -hydroxylase (CYP7A1), the rate-limiting enzyme in bile acid synthesis.
Form	Liquid. 0.2 μ m-filtered solution in PBS.
Molecular Mass	~180kDa (SDS-PAGE)
Purity	$\geq$ 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Function

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA