

Beta Klotho Protein, Mouse, Recombinant (His)

General Information

Synonyms:	Klotho beta; β -klotho;MGC142213; β Klotho; β Klotho;KLB;beta-klotho;klotho beta like;BKL;klotho β like;betaKlotho;Klotho β
Protein Construction:	Phe53-Pro994
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q99N32-1
Molecular Weight:	109.91 kDa (predicted). Due to glycosylation, the protein migrates to 120-130 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Human FGFR4, hFc Tag captured on CM5 Chip via Protein A can bind Mouse Beta Klotho, His Tag with an affinity constant of 36.97 nM as determined in SPR assay.
Purity:	> 90% as determined by Tris-Bis PAGE; > 90% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μ m filtered solution in PBS (pH 7.4).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C . Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Beta-klotho (KLB) is a coreceptor required for endocrine fibroblast growth factor (FGF) 15/19 and FGF21 signaling in the brain. Klb is prominent within the hypothalamus, which is consistent with its metabolic functions, but diverse roles for Klb are now emerging. Central Klb expression is low but discrete and may govern FGF-targeted sites.

Reference

Bono BS, et al. Spatial distribution of beta-klotho mRNA in the mouse hypothalamus, hippocampal region, subiculum, and amygdala. J Comp Neurol. 2022 Feb 10. doi: 10.1002/cne.25306. Epub ahead of print. PMID: 35143049.

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