



Synonym

betaKlotho,beta-klotho,BKL,KLB,klotho beta like,klotho beta-like protein

Source

Mouse Klotho beta, His Tag(KLB-M52H7) is expressed from human 293 cells (HEK293). It contains AA Phe 53 - Leu 995 (Accession # [Q99N32-1](#)).
Predicted N-terminus: Phe 53

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.
The protein has a calculated MW of 110.8 kDa. The protein migrates as 125-145 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

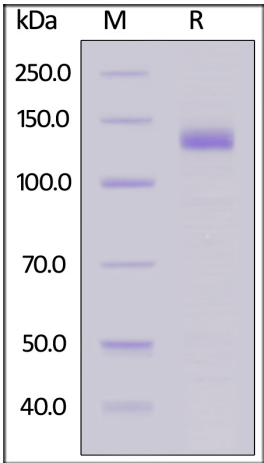
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

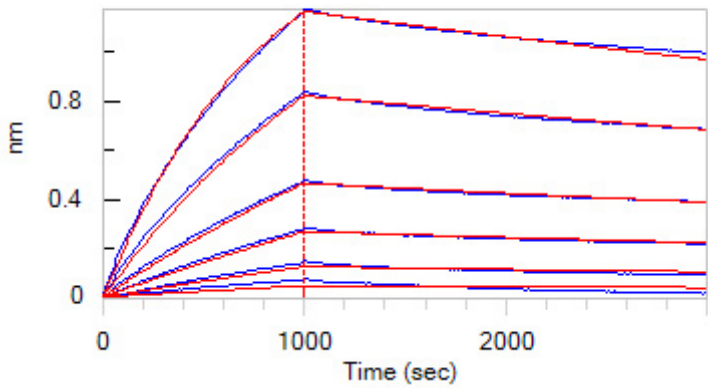


Mouse Klotho beta, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

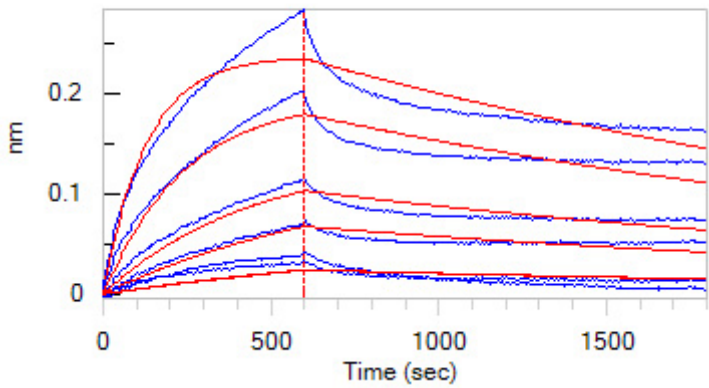
Bioactivity-BLI

Discounts, Gifts,
and more!





Loaded Human FGF19, Fc Tag (Cat. No. FG9-H5253) on Protein A Biosensor, can bind Mouse Klotho beta, His Tag (Cat. No. KLB-M52H7) with an affinity constant of 78.6 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



Loaded Human FGF R4, Fc Tag (Cat. No. FG4-H5253) on Protein A Biosensor, can bind Mouse Klotho beta, His Tag (Cat. No. KLB-M52H7) with an affinity constant of 54.0 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Background

KLB (Klotho Beta) is a Protein Coding gene. Among its related pathways are RET signaling and HIV Life Cycle. GO annotations related to this gene include hydrolase activity, hydrolyzing O-glycosyl compounds and fibroblast growth factor binding. An important paralog of this gene is KL. Klotho Beta is a regulator in multiple metabolic processes, while its role in cancer remains unclear. We found the expression of β Klotho was down-regulated in human hepatocellular carcinoma tissues compared with that in paired adjacent non-tumorous liver tissues. Hepatoma cells also showed decreased expression of β Klotho compared with normal hepatocyte cells. Reintroduction of β Klotho into hepatoma cells inhibited their proliferation.

