

# Mouse Beta Klotho Protein

Cat. No. KLB-MM101

## Description

<b>Source</b>	Recombinant Mouse Beta Klotho Protein is expressed from HEK293 with His tag at the C-Terminus It contains Phe53-Pro994.
<b>Accession</b>	Q99N32-1
<b>Molecular Weight</b>	The protein has a predicted MW of 109.91 kDa. Due to glycosylation, the protein migrates to 120-130 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	>90% as determined by Bis-Tris PAGE; >90% as determined by HPLC

## Formulation and Storage

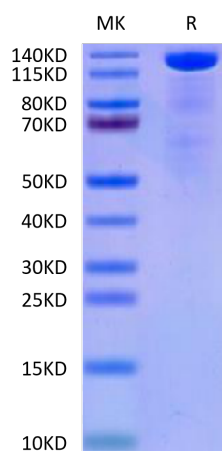
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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.

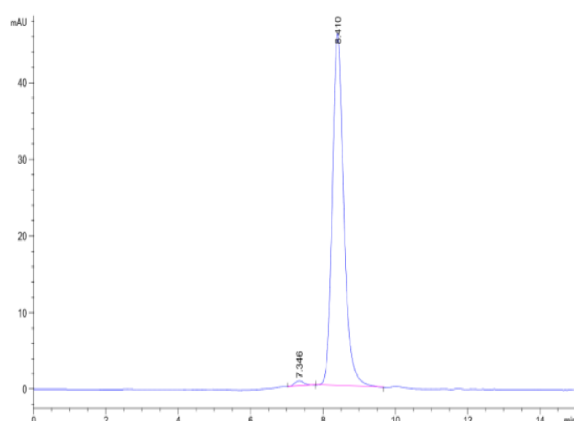
## Assay Data

### Bis-Tris PAGE



Mouse Beta Klotho on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

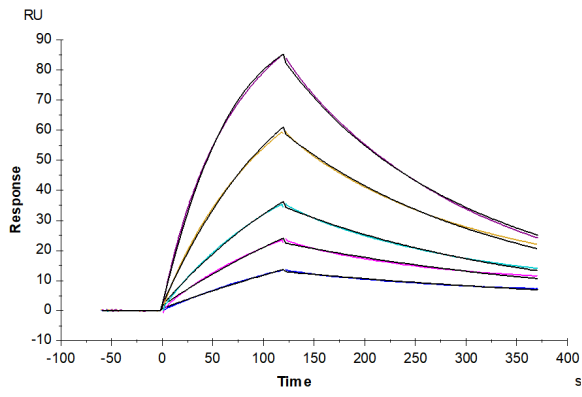
### SEC-HPLC



The purity of Mouse Beta Klotho Protein is greater than 90% as determined by SEC-HPLC.

Assay Data

SPR Data



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 (Biacore T200).