

Mouse Beta Klotho Protein

Cat. No. KLB-MM101



Description

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

Formulation and Storage

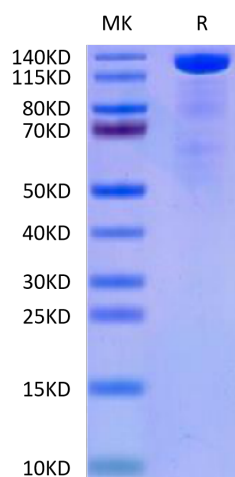
Formulation	Supplied as 0.22 μm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

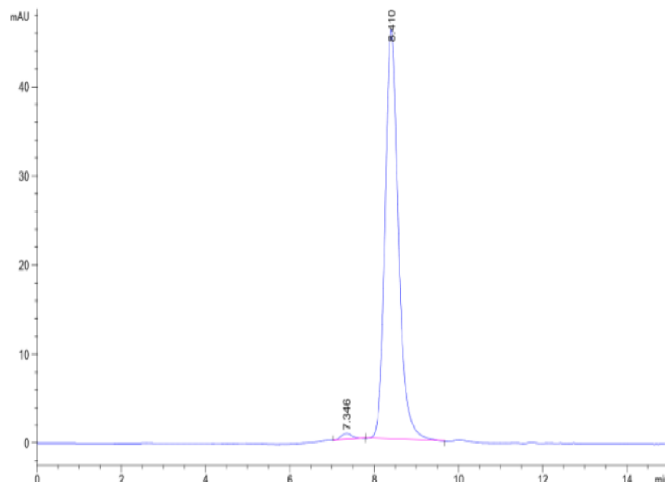
Assay Data

Tris-Bis PAGE



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

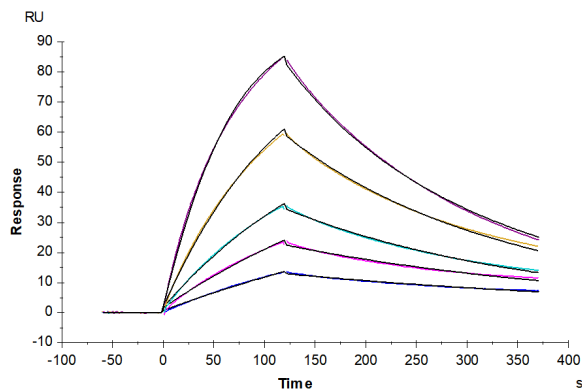
SEC-HPLC



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

SPR Data

Assay 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).