

Klotho Blocking Peptide (C-term)
Synthetic peptide
Catalog # BP22140b**Specification****Klotho Blocking Peptide (C-term) - Product Information**Primary Accession [Q9UEF7](#)
Other Accession [Q8WPI7](#)**Klotho Blocking Peptide (C-term) - Additional Information****Gene ID** 9365**Other Names**

Klotho, 3.2.1.31, Klotho peptide, KL

Target/Specificity

The synthetic peptide sequence is selected from aa 304-315 of HUMAN KL

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Klotho Blocking Peptide (C-term) - Protein Information**Name** KL**Function**

May have weak glycosidase activity towards glucuronylated steroids. However, it lacks essential active site Glu residues at positions 239 and 872, suggesting it may be inactive as a glycosidase in vivo. May be involved in the regulation of calcium and

Klotho Blocking Peptide (C-term) - Background

May have weak glycosidase activity towards glucuronylated steroids. However, it lacks essential active site Glu residues at positions 239 and 872, suggesting it may be inactive as a glycosidase in vivo. May be involved in the regulation of calcium and phosphorus homeostasis by inhibiting the synthesis of active vitamin D (By similarity). Essential factor for the specific interaction between FGF23 and FGFR1 (By similarity).

Klotho Blocking Peptide (C-term) - References

Kuro-o M., et al. Nature 390:45-51(1997).
Matsumura Y., et al. Biochem. Biophys. Res. Commun. 242:626-630(1998).
Dunham A., et al. Nature 428:522-528(2004).
Kato Y., et al. Biochem. Biophys. Res. Commun. 267:597-602(2000).
Yahata K., et al. J. Mol. Med. 78:389-394(2000).

phosphorus homeostasis by inhibiting the synthesis of active vitamin D (By similarity). Essential factor for the specific interaction between FGF23 and FGFR1 (By similarity).

Cellular Location

[Isoform 1]: Cell membrane; Single-pass type I membrane protein. Apical cell membrane
{ECO:0000250|UniProtKB:O35082};
Single-pass type I membrane protein
{ECO:0000250|UniProtKB:O35082}.
Note=Isoform 1 shedding leads to a soluble peptide. {ECO:0000250|UniProtKB:O35082}
[Klotho peptide]: Secreted
{ECO:0000250|UniProtKB:O35082}

Tissue Location

Present in cortical renal tubules (at protein level). Soluble peptide is present in serum and cerebrospinal fluid Expressed in kidney, placenta, small intestine and prostate. Down- regulated in renal cell carcinomas, hepatocellular carcinomas, and in chronic renal failure kidney.

Klotho Blocking Peptide (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)