

## PRODUCT INFORMATION SUMMARY

### Human Klotho

Purified Factor	Product Number	HC67714B	20.0 ug
Purified Factor	Product Number	HC67714A	5.0 ug

#### DESCRIPTION:

Human Klotho, also known as KLA factor, is a glycosylated protein expressed kidney convoluted tubules, and also some expression in reproductive organs, brain, bladder, placenta and colon. Human Klotho is expressed in both membrane bound and soluble form, and the transmembrane form exhibits two homologous extracellular subunits KL1 and KL2 ( 516 and 439 aa. respectively). Klotho plays a role in signaling of FGF-23 via binding to FGFR1 (IIIc), converting the receptor specific to FGF-23. Human Kloyho is a 516 aa. Glycoprotein with 65-70 kDa molecular weight.

**SOURCE:** CHO cells  
Purity > 98% by HPLC analysis  
Endotoxin < 0.1 ng per ug Klotho  
Sterile-filtered and lyophilized from PBS

#### BIOLOGICAL ACTIVITY:

Dose-dependent stimulation of mouse 3T3 cells in range of 0.5 - 2.0 ug/mL.

#### HANDLING AND STORAGE:

Purified Human Klotho is provided lyophilized. Store lyophilized, at -20° C. **Microcentrifuge** before reconstitution (see below). Upon reconstitution in distilled water to 100.0 ug/mL , further dilute in PBS or other buffered solutions. Store small aliquots, **with addition of 0.1% BSA**, at -20° C for long-term storage, at high concentration.

**Before opening vial**, it is recommended to microcentrifuge vial for 30 seconds to spin-down any lyophilized material that may adhere to top of vial. The small amounts of protein may adhere to the vial as a very thin coat of lyophilized material, and may be difficult to see as a pellet.

#### WARRANTY:

Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product.

**RESEARCH USE ONLY -NOT for DRUG USE**