

# Human Kv1.3 VLP

Cat. No. KV1-HM00V

## Description

<b>Source</b>	Recombinant Human Kv1.3 VLP is expressed from HEK293. It contains Met1-Val575 (It may have cross reaction with anti-His antibody).
<b>Accession</b>	P22001-1
<b>Molecular Weight</b>	The target protein has a predicted MW of 94.06 kDa.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by HPLC

## Formulation and Storage

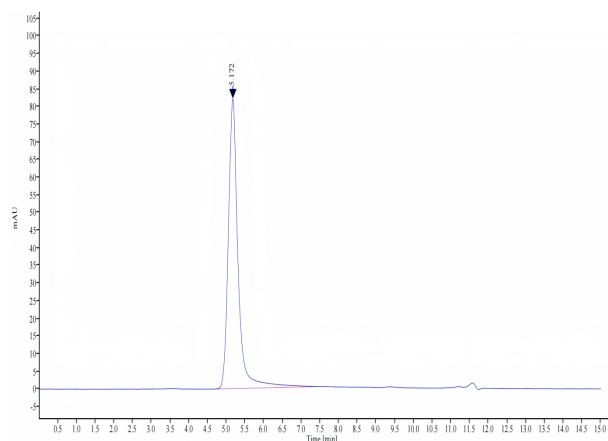
<b>Formulation</b>	Supplied as 0.22 µm filtered solution in PBS, 300mM L-Arginine (pH 7.4). Notice: If you need it for immunization, water-soluble adjuvant is recommended.
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Kv1.3 is a voltage gated potassium channel located in the plasma membrane, as well as at intracellular levels, such as mitochondria (mitoKv1.3), nucleus and Golgi apparatus. The plasma membrane channel has been shown to be important for cell proliferation, while the mitochondrial counterpart has been related to modulation of cell death. Moreover, altered expression of Kv1.3 was observed in various tumors and Kv1.3 seems to be involved in development and progression of various cancerous forms.

## Assay Data

### SEC-HPLC

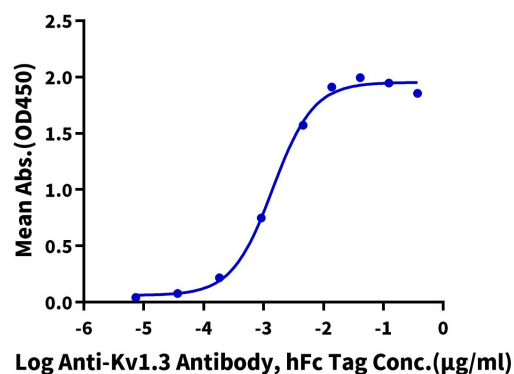


The purity of Human Kv1.3 VLP is greater than 95% as determined by SEC-HPLC.

### ELISA Data

#### Human Kv1.3 VLP ELISA

0.5µg Human Kv1.3 VLP Per Well



Immobilized Human Kv1.3 VLP at 5µg/ml (100µl/well) on the plate. Dose response curve for Anti-Kv1.3 Antibody, hFc Tag with the EC50 of 1.4ng/ml determined by ELISA.