

# Human Kremen-2 Protein

Cat. No. KRE-HM102

## Description

<b>Source</b>	Recombinant Human Kremen-2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gly26-Ala364.
<b>Accession</b>	Q8NCW0-1
<b>Molecular Weight</b>	The protein has a predicted MW of 37.1 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

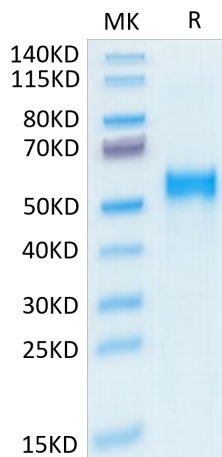
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. 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 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Kremen2 (Krm2) plays an important role in embryonic development, bone formation, and tumorigenesis as a crucial regulator of classical Wnt/ $\beta$ -catenin signaling pathway. Compared to para-cancerous tissues, Krm2 was significantly up-regulated in gastric cancer tissues and was positively correlated with the pathological grade of gastric cancer patients. Krm2 can be a potent candidate for designing of targeted therapy.

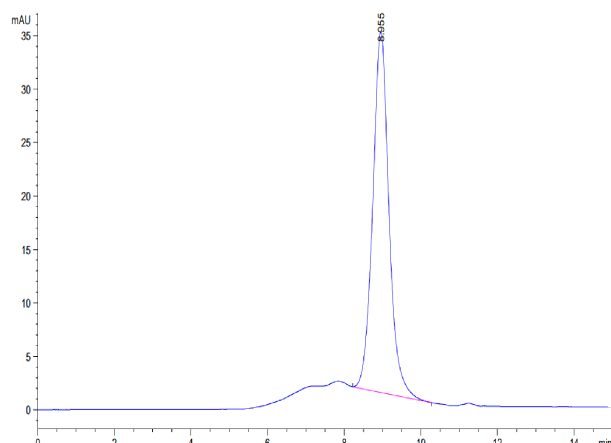
## Assay Data

### Tris-Bis PAGE



Human Kremen-2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



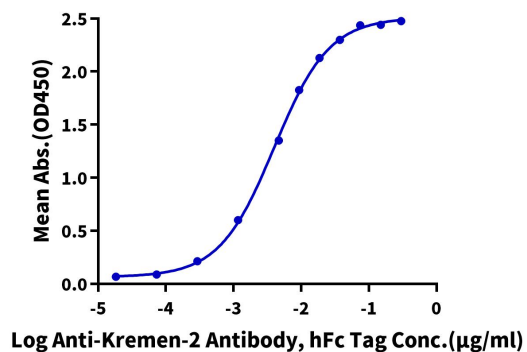
The purity of Human Kremen-2 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Human Kremen-2, His Tag ELISA**

0.1  $\mu$ g Human Kremen-2, His Tag Per Well



Immobilized Human Kremen-2, His Tag at 1  $\mu$ g/ml (100  $\mu$ l/well) on the plate. Dose response curve for Anti-Kremen-2 Antibody, hFc Tag with the EC50 of 4.0ng/ml determined by ELISA (QC Test).