

Kremen-2 Protein, Human, Recombinant (His)

General Information

Synonyms:	KRM2;KREMEN2;Kremen-2;Dickkopf receptor 2
Protein Construction:	Gly26-Ala364
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8NCW0-1
Molecular Weight:	37.1 kDa (predicted). Due to glycosylation, the protein migrates to 50-60 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human Kremen-2, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-Kremen-2 Antibody, hFc Tag with the EC50 of 7.5ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Kremen2 (Krm2) plays an important role in embryonic development, bone formation, and tumorigenesis as a crucial regulator of classical Wnt/ β -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.

Reference

Chen B, et al. Knockdown of Kremen2 Inhibits Tumor Growth and Migration in Gastric Cancer. Front Oncol. 2021 Jan 7;10:534095. doi: 10.3389/fonc.2020.534095. PMID: 33489867; PMCID: PMC7817645.

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