

Active Recombinant Human Kringle Containing Transmembrane Protein 2, His-tagged

Cat. No. KREMEN2-5674H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KREMEN2 protein was expressed in Murine myeloma cell line with a C-terminal 10-His tag. Gln19-Ala364.
Species	Human
Source	Mammalian Cells
Protein Length	19-364 a.a.
Description	KREMEN2 proteins are type I transmembrane proteins that contain extracellular kringle, WSC and CUB domains and an intracellular region without any conserved motifs. Two related members, KREMEN1, and 2, have been identified. KREMEN bind a subset of these secreted Dickkopf proteins (Dkk1, 2, and 4) with high affinity to modulate the canonical Wnt signaling pathway that is transduced by the ternary receptor complex composed of Wnt, the seven transmembrane domain receptor Frizzled, and the LDL receptor related protein 5/6 coreceptor.
Form	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
N-terminal Sequence	Gln19 predicted
Molecular Weight	38 kDa
Activity	Measured by its binding ability in a functional ELISA. Immobilized rhKREMEN2/ his at

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	4µg/mL (100 µL/well) can bind rhDkk1 with an apparent KD < 10nM.
Endotoxin Level	<1.0 EUper 1 µg of the protein by the LAL method.
SDS-PAGE	59-63kDa, reducing conditions.
Purity	>95%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100µg/mL in sterile PBS
Storage	Use amannual defrost freezer and avoid repeated freeze-thaw cycles. 12 months fromdate of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterileconditions after reconstitution. 3 months, -20 to -70°C under sterileconditions after reconstitution.

GENE INFORMATION

Gene Name	KREMEN2 krigle containingtransmembrane protein 2 [Homo sapiens]
Official Symbol	KREMEN2
Synonyms	KREMEN2; kriglecontaining transmembrane protein 2; KRM2; MGC10791; MGC16709; kremen protein2; dickkopf receptor 2; krigle domain-containing transmembrane protein 2;krigle-containing protein marking the eye and the nose; OTTHUMP00000159226;OTTHUMP00000159227
Gene ID	79412
mRNA Refseq	NM_024507
Protein Refseq	NP_078783

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MIM	609899
UniProt ID	Q8NCW0
Chromosome Location	16p13.11
Pathway	Presenilin action inNotch and Wnt signaling; Wnt signaling network

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