

Active Recombinant Human SERPINA4 protein, His-tagged

Cat. No. SERPINA4-4532H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human SERPINA4 protein(P29622)(21-427 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	21-427 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Kallistatin (KAL), a member of serpin family, can inhibit human amidolytic and kininogenase activities of tissue kallikrein. KAL is widely distributed in a variety of organs and body fluids and has biological effects such as anti-inflammatory, antioxidant stress, anti-angiogenesis and anti-tumor. Besides, Kallikrein 2 (KLK2) has been identified as an interactor of KAL, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human KAL and recombinant human KLK2. Briefly, KLK2 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to KAL-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-KLK2 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ stop solution to the wells and read at 450/630 nm immediately.

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When recombinant human KAL is immobilized at 2 ug/mL (100 uL/well), the concentration of KLK2 that produces 50% optimal binding response is found to be approximately 0.49 ug/mL.

Molecular Mass	50.1kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 80%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	SERPINA4 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 4 [Homo sapiens]
Official Symbol	SERPINA4
Synonyms	KAL; KST; PI4; KLST; PI-4; kallistatin
Gene ID	5267
mRNA Refseq	NM_006215.2
Protein Refseq	NP_006206.2

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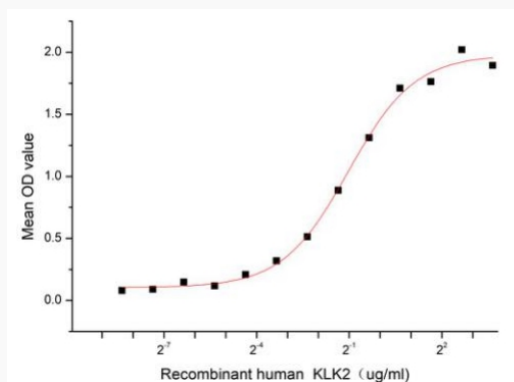
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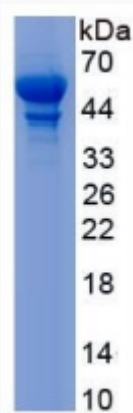
MIM 147935

UniProt ID P29622

Activity



SDS-PAGE



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