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Datasheet for ABIN7534291
Kallikrein 8 Protein (KLK8) (His tag)

Overview

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|-------------------------------|---|
| Quantity: | 100 µg |
| Target: | Kallikrein 8 (KLK8) |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This Kallikrein 8 protein is labelled with His tag. |

Product Details

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| Purpose: | Active Recombinant Human Kallikrein-8/KLK8 Protein |
| Sequence: | QEDKVLGGHE CQPHSQPWQA ALFQGQQLLC GGVLVGGNWW LTAAHCKKPK YTVRLGDHSL QNKDGPEQEI PVVQSIPHPC YNSSDVEDHN HDLMLLQLRD QASLGSKVKP ISLADHCTQP GQKCTVSGWG TVTSPRENF DTLNCAEVKI FPQKKCEDAY PGQITDGMVC AGSSKGADTC QGDSGGPLVC DGALQGITSW GSDPCGRSDK PGVYTNICRY LDWIKKIIGS KG |
| Specificity: | Gln29-Gly260 |
| Purity: | > 95 % by SDS-PAGE. |
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | < 0.1 EU/µg of the protein by LAL method. |
| Biological Activity Comment: | Measured by its ability to cleave the fluorogenic peptide substrate Boc-VPR-AMC. The specific activity is >44.95 pmol/min/µg. |

Target Details

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| Target: | Kallikrein 8 (KLK8) |
| Alternative Name: | Kallikrein-8/KLK8 (KLK8 Products) |
| Background: | <p>Description: Kallikrein-8, also known as Neuropsin, Serine protease 19, Serine protease TADG-14, Tumor-associated differentially expressed gene 14 protein and KLK8, is a secreted protein which belongs to the peptidase S1 family and Kallikrein subfamily. It is a serine protease which is capable of degrading a number of proteins such as casein, fibrinogen, kininogen, fibronectin and collagen type IV. Kallikrein-8 / KLK8 is involved in skin desquamation and keratinocyte proliferation and plays a role in the secondary phase of pathogenesis following spinal cord injury. Kallikrein-8 / KLK8 is expressed at high levels in serum, ascites fluid and tumor cytosol of advanced stage ovarian cancer patients and may serve as a marker of ovarian cancer.</p> <p>Name: KLK8, HNP, NP, NRPN, PRSS19, TADG14, kallikrein-8, Kallikrein 8, HNP, NP, NRPN, PRSS19, TADG14</p> |
| Gene ID: | 11202 |
| UniProt: | O60259 |
| Pathways: | Complement System |

Application Details

Restrictions: For Research Use only

Handling

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| Format: | Lyophilized |
| Reconstitution: | Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles. |
| Buffer: | Lyophilized from a 0.22 µm filtered solution of 20 mM Tris, 150 mM NaCl, pH 8.0. |
| Storage: | -20 °C, -80 °C |
| Storage Comment: | <p>Store the lyophilized protein at -20°C to -80 °C for long term.</p> <p>After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.</p> |