

For Research Use Only

Recombinant Human Kallikrein 10 protein (mFc Tag)

Catalog Number: Eg3675



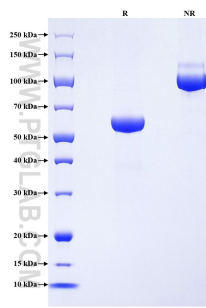
Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: mFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/µg protein, LAL method Source: HEK293-derived Human Kallikrein 10 protein Ala31-Asn276 (Accession# O43240) with a mouse IgG Fc tag at the N-terminus. GeneID: 5655 Accession: O43240 Predicted Molecular Mass: 54.7 kDa SDS-PAGE: 53-65 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	KLK10 is a secreted serine protease that is involved in various physiological processes and has potential as a diagnostic biomarker for ovarian cancer. Its expression is regulated by steroid hormones and is downregulated in testicular germ cell tumors and upregulated in ovarian cancer. KLK10 is expressed in various tissues, including the esophagus, skin, and others. It is particularly biased in the esophagus, skin, and other tissues. It is predicted to be secreted and is found in the extracellular space. Serum hK10, in combination with CA125, can improve the diagnostic sensitivity and specificity for ovarian cancer. KLK10 expression is decreased in human coronary arteries with advanced atherosclerotic plaques. KLK10 inhibits endothelial inflammation and protects the permeability barrier, ultimately reducing atherosclerosis. It is also a potential biomarker for ovarian cancer.		
References	1. Kato K, Noda T, et al. (2024) Cancer Sci. 115(5):1520-1535. 2. Zhang M, Jiang L, et al. (2024) Heliyon. 10(1):e24287. 3. Williams D, Mahmoud M, et al. (2022) Elife. 11:e72579. 4. Cheng W, Song Q, et al. (2024) Tob Induc Dis. 22.		
Synonyms	KLK10, EC:3.4.21.-, Kallikrein-10, NES1, Normal epithelial cell-specific 1		

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Human Kallikrein 10 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.