

Kallikrein 5/KLK5 Protein, Human, Recombinant (His)

General Information

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| Synonyms: | Stratum Corneum Tryptic Enzyme;Kallikrein-Like Protein 2;KLK5;Kallikrein-5;KLK-L2;SCTE |
| Protein Construction: | Val23-Ser293 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | Q9Y337 |
| Molecular Weight: | 40 KDa (reducing condition) |
| AA Sequence: | Val23-Ser293 |

QC Testing

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| Biological Activity: | Measured by its ability to cleave the fluorogenic peptide substrate Boc-VPR-AMC. The specific activity is 622 pmol/min/ μ g, as measured under the described conditions. (Regularly tested) |
| Purity: | Greater than 95% as determined by reducing SDS-PAGE. Greater than 95% as determined by SEC-HPLC. |
| Endotoxin: | < 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test. |
| Formulation: | Supplied as a 0.2 μ m filtered solution of 20 mM MES, 150 mM NaCl, 10% Glycerol, pH 5.5. |

Preparation and Storage

Stability & Storage:

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:

Proteins are shipped with blue ice.

Protein Background

Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many Kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen Kallikrein subfamily members located in a cluster on chromosome 19. Its encoded protein is secreted and may play a role in suppression of tumorigenesis in breast and prostate cancers. Alternate splicing of this gene results in multiple transcript variants encoding the same protein.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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