

# Product information



## KLK7, 30-253aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1737

**Full name:** kallikrein-7

**NCBI Accession No.:** NP\_005037

**Synonyms:** hK7, PRSS6, SCCE

**Description:** KLK7 is a member of the kallikrein subfamily of serine proteases. These enzymes have diverse physiological functions and many kallikreins are biomarkers for cancer. The protein has chymotrypsin-like activity and plays a role in the proteolysis of intercellular cohesive structures that precedes desquamation, the shedding of the outermost layer of the epidermis. KLK7 may play a role in cancer invasion and metastasis, and increased expression of this protein is associated with unfavorable prognosis and progression of several types of cancer. Polymorphisms in this gene may play a role in the development of atopic dermatitis. Recombinant human KLK7 protein, fused to His-tag at N-terminus, was expressed in *E.coli*.

<p><b>Form:</b> Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2M UREA, 10% glycerol</p> <p><b>Molecular Weight:</b> 27.1 kDa (249aa)</p> <p><b>Purity:</b> &gt; 90% by SDS - PAGE</p> <p><b>Concentration:</b> 1 mg/ml (determined by Bradford assay)</p>	<p>(kDa) 70 57 40 28 18 13.5 8.5</p> <p>15% SDS-PAGE (3ug)</p>
<p><b>Sequences of amino acids:</b></p> <p><u>MGSSHHHHH</u> <u>SSGLVPRGSH</u> <u>MGSHM</u> I DGA PCARGSHPWQ VALLSGNQLH CGGVLVNERW VLTAAHCKMN EYTVHLGSDT LGDRRAQRIK ASKFRHPGY STQTHVNDLM LVKLNSQARL SSMVKKVRLP SRCEPPGTTT TVSGWGTTTS PDVTFPSDLM CVDVKLISQP DCTKVYKDLL ENSMLCAGIP DSKKNACNGD SGGPLVCRGT LQGLVSWGTF PCGQPNDPGV YTVQVCKFTKW INDTMKKHR</p>	

### General references:

Talieri, M., et al. (2011) *Anticancer Res.* 31 (9), 3093-3100

Ramani, V.C., et al. (2011) *Biochim. Biophys. Acta* 1813 (8), 1525-1531

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



Manufactured for:

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