

Product datasheet for **TP727384**

KLK7 Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse Kallikrein 7/KLK7 (C-6His)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Gln22-Arg249
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of 20mM HEPES, 150mM NaCl, pH 7.4.
Note:	Recombinant Mouse Kallikrein 7 is produced by our Mammalian expression system and the target gene encoding Gln22-Arg249 is expressed with a 6His tag at the C-terminus.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	23993
UniProt ID:	Q91VE3
Synonyms:	Kallikrein-7; Klk7; Serine protease 6; Stratum corneum chymotryptic enzyme; Thymopsin; kallikrein-related peptidase 7; PRSS6; SCCEkallikrein-7
Summary:	Kallikrein7, also named as stratum corneum chymotryptic enzyme (SCCE), is a secreted protein of the Kallikrein-related peptidase (KLK) family. This family contains fifteen homologous secreted serine endopeptidases and plays a significant role in various physiological processes, including skin desquamation, semen liquefaction, neural plasticity, and body fluid homeostasis. In skin KLK5, KLK 7 and KLK14 are able to degrade corneodesmosomes, which leads to desquamation of skin surface cells. KLK activation is believed to be mediated through highly organized proteolytic cascades, regulated through a series of feedback loops, inhibitors, auto-degradation and internal cleavages. Studies have shown that one potential physiological activator for KLK7 is KLK5. Along with KLK14, these three kallikreins form a proteolytic cascade in the stratum corneum. KLK7 is primarily expressed in the skin but is also detected at relatively high levels in esophagus, heart, liver, central nervous system, kidney, pancreas, mammary and salivary glands.



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