
Product Data Sheet

Product Name: KLK8 Mouse
 Cat. No.: GP21847
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ovasin; PRSS19; TADG14; NRPN; NP; Kallikrein 8(Neuropsin/Ovasin) 2 EC 3.4.21.118; Kallikrein-8; Neuropsin; EC 3.4.21 61;HNP; HK8		
Amino Acid Sequence	QGSKILEGRE CIPHSQPWQA ALFQGERLIC GGVLVGDWRV LTAAHCKKQK YSVRLGDHSL QSRDQPEQEI QVAQSIQHPC YNNSNPEDHS HDIMLIRLQN SANLGDKVKP VQLANLCPKV GQKCIISGWG TVTSPQENFP NTLNCAEVKI YSQNK CERAY PGKITEGMVC AGSSNGADTC QGDSGGPLVC DGMLQGITSW GSDPCGKPEK PGVYTKICRY TTWIKKTMDN RDLEHHHHHHH.		
Formulation	KLK8 protein 0.5mg/ml is supplied in PBS, pH-7.4, and 10%Glycerol.		

Introduction

Kallikrein-8 is a serine protease which degrades various proteins such as casein, fibrinogen, kininogen, fibronectin and collagen type IV. Kallikrein-8 takes part in the formation and maturation of orphan and small synaptic boutons in the Schaffer-collateral pathway, regulates Schaffer-collateral long-term potentiation in the hippocampus and is essential for memory acquisition and synaptic plasticity. Kallikrein-8 participates in the secondary phase of pathogenesis following spinal cord injury and also takes part in skin desquamation and keratinocyte proliferation.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

KLK8 Mouse Recombinant produced in Sf9 is a single, glycosylated polypeptide chain containing 240 amino acids (29-260) and having a molecular mass of 26.5kDa

Caution: Product has not been fully validated for medical applications. For research use only.

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(Molecular size on SDS-PAGE will appear at approximately 28-40kDa). The KLK8 is fused to an 8 amino acid His-Tag at C-terminus and purified by proprietary chromatographic techniques.

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