

Product information

Klk8, 29-260aa

Mouse, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3553

Full name: Kallikrein-8

NCBI Accession No.: NP_032966

Synonyms: Klk8, BSP1, NP, Nrpn, Prss19, Neuropsin

Description: Klk8, as known as kallikrein-8, is a member of the tissue kallikrein family. This protein is capable of degrading a number of proteins such as casein, fibrinogen, fibronectin and collagen type IV. Also, it cleaves L1CAM in response to increased neural activity and induces neurite outgrowth and fasciculation of cultured hippocampal neurons. It plays a role 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 required for memory acquisition and synaptic plasticity. Recombinant mouse Klk8, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Form: Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight: 26.5kDa (240aa)

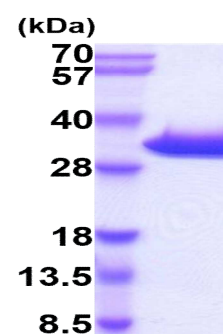
28-40kDa (SDS-PAGE under reducing conditions.)

Predicted N terminal: Gln29

Purity: > 95% by SDS - PAGE.

Concentration: 0.5mg/ml (determined by Absorbance at 280nm)

Endotoxin Level: < 1.0 EU per 1µg of protein (determined by LAL method)



15% SDS-PAGE (3µg)

Sequences of amino acids:

QGSKILEGRE CIPHSQPWQA ALFQGERLIC GGVLVGDRWV LTAAHCKKQK YSVRLGDHSL QSRDQPEQEI QVAQSIQHPC YNNSNPEDHS
 HDIMLIRLQN SANLGDKVKP VQLANLCPKV GQKCIISGWG TVTSPQENFP NTLNCAEVKI YSQNK CERAY PGKITEGMVC AGSSNGADTC
 QGDSSGPLVC DGMLQGITSW GSDPCGKPEK PGVYTKICRY TTWIKKTM DN RDLEHHHHHH

General references:

Kishibe M., *et al*, (2012) *J. Invest. Dermatol.* 132:1717-1724.

Attwood BK., *et al*, (2011) *Nature* 473:372-375.

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



Manufactured for:

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Product information

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.

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