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32-9220: Recombinant Human Lacritin/LACRT (N-6His)

Uniprot ID : Q9GZZ8
Alternative Name : Extracellular Glycoprotein Lacritin, LACRT

Description

Source : E. coli

Extracellular glycoprotein lacritin (Lacritin) is a secreted protein which consists of 119 amino acids after cleavage of the N-terminal signal peptide and displays several predicted alpha helices, mostly in the C- terminal half. Lacritin is highly expressed in the lacrimal gland, localizes primarily to secretory granules and secretory fluid. Lacritin modulates lacrimal acinar cell secretion, promotes ductal cell proliferation, and stimulates signaling through tyrosine phosphorylation and release of calcium. Lacritin is thus a multifunctional prosecretory mitogen with cell survival activity. Natural or bacterial cleavage of lacritin releases a C-terminal fragment that is bactericidal. Lacritin cell targeting is dependent on the cell surface heparan sulfate proteoglycan syndecan-1 (SDC1). Binding utilizes an enzyme-regulated 'off-on' switch in which active epithelial heparanase (HPSE) cleaves off heparan sulfate to expose a binding site in the N-terminal region of syndecan-1's core protein.

Product Info

Amount : 500 µg / 50 µg
Content : Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4
Amino Acid : Recombinant Human Lacritin is produced by our E.coli expression system and the target gene encoding Ala19-Ala138 is expressed with a 6His tag at the N-terminus.
MHHHHHHASSDSTGADPAQEAGTSKPNEEISGPAEPASPPETTTTAQETSAAAVQGTAKVTSSRQELNPLKSIV
EKSILLTEQALAKAGKGMHGGVPGGKQFIENGSEFAQKLLKKFSLLKPWA

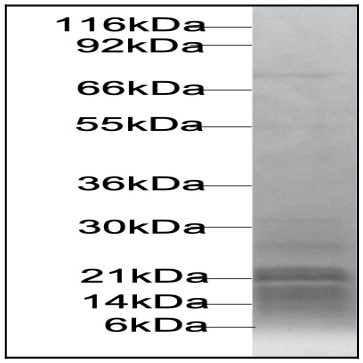

Figure: Coomassie gel staining. LACRT protein (10ug) was loaded in 4-20% SDS Page gel in reducing condition.

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