

Datasheet for ABIN7318709

Lacritin Protein (LACRT) (His tag)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	Lacritin (LACRT)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Lacritin protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Lacritin/LACRT Protein (His Tag)
Sequence:	Ala19-Ala138
Characteristics:	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.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Lacritin (LACRT)
Alternative Name:	Lacritin/LACRT (LACRT Products)
Background:	Background: 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,

Target Details

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.

Synonym: Extracellular Glycoprotein Lacritin, LACRT

Molecular Weight: 14.6 kDa

UniProt: [Q9GZZ8](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.