

ELANE Protein, Human (GST)

Cat. No.:	HY-P72179
Synonyms:	Bone marrow serine protease; ELA2; ELANE; Elastase 2; Elastase 2 neutrophil; Elastase neutrophil expressed; Elastase-2; ELNE_HUMAN; GE; Granulocyte derived elastase; HLE; HNE; Human leukocyte elastase; Leukocyte elastase; Medullasin; NE; Neutrophil elastase; PMN E; PMN elastase; Polymorphonuclear elastase; SCN1
Species:	Human
Source:	E. coli
Accession:	P08246 (I30-H267)
Gene ID:	1991
Molecular Weight:	Approximately 52.6 kDa

PROPERTIES

AA Sequence	<div> <div>I</div><div>V</div><div>G</div><div>G</div><div>R</div><div>R</div><div>A</div><div>R</div><div>P</div><div>H</div> <div>A</div><div>W</div><div>P</div><div>F</div><div>M</div><div>V</div><div>S</div><div>L</div><div>Q</div><div>L</div> <div>R</div><div>G</div><div>G</div><div>H</div><div>F</div><div>C</div><div>G</div><div>A</div><div>T</div><div>L</div> <div>I</div><div>A</div><div>P</div><div>N</div><div>F</div><div>V</div><div>M</div><div>S</div><div>A</div><div>A</div> </div> <div> <div>H</div><div>C</div><div>V</div><div>A</div><div>N</div><div>V</div><div>N</div><div>V</div><div>R</div><div>A</div> <div>V</div><div>R</div><div>V</div><div>L</div><div>G</div><div>A</div><div>H</div><div>N</div><div>L</div> <div>S</div><div>R</div><div>R</div><div>E</div><div>P</div><div>T</div><div>R</div><div>Q</div><div>V</div><div>F</div> <div>A</div><div>V</div><div>Q</div><div>R</div><div>I</div><div>F</div><div>E</div><div>N</div><div>G</div><div>Y</div> </div> <div> <div>D</div><div>P</div><div>V</div><div>N</div><div>L</div><div>L</div><div>N</div><div>D</div><div>I</div><div>V</div> <div>I</div><div>L</div><div>Q</div><div>L</div><div>N</div><div>G</div><div>S</div><div>A</div><div>T</div><div>I</div> <div>N</div><div>A</div><div>N</div><div>V</div><div>Q</div><div>V</div><div>A</div><div>Q</div><div>L</div><div>P</div> <div>A</div><div>Q</div><div>G</div><div>R</div><div>R</div><div>L</div><div>G</div><div>N</div><div>G</div><div>V</div> </div> <div> <div>Q</div><div>C</div><div>L</div><div>A</div><div>M</div><div>G</div><div>W</div><div>G</div><div>L</div><div>L</div> <div>G</div><div>R</div><div>N</div><div>R</div><div>G</div><div>I</div><div>A</div><div>S</div><div>V</div><div>L</div> <div>Q</div><div>E</div><div>L</div><div>N</div><div>V</div><div>T</div><div>V</div><div>T</div><div>S</div> <div>L</div><div>C</div><div>R</div><div>R</div><div>S</div><div>N</div><div>V</div><div>C</div><div>T</div><div>L</div> </div> <div> <div>V</div><div>R</div><div>G</div><div>R</div><div>Q</div><div>A</div><div>G</div><div>V</div><div>C</div><div>F</div> <div>G</div><div>D</div><div>S</div><div>G</div><div>S</div><div>P</div><div>L</div><div>V</div><div>C</div><div>N</div> <div>G</div><div>L</div><div>I</div><div>H</div><div>G</div><div>I</div><div>A</div><div>S</div><div>F</div><div>V</div> <div>R</div><div>G</div><div>G</div><div>C</div><div>A</div><div>S</div><div>G</div><div>L</div><div>Y</div><div>P</div> </div> <div> <div>D</div><div>A</div><div>F</div><div>A</div><div>P</div><div>V</div><div>A</div><div>Q</div><div>F</div><div>V</div> <div>N</div><div>W</div><div>I</div><div>D</div><div>S</div><div>I</div><div>I</div><div>Q</div><div>R</div><div>S</div> <div>E</div><div>D</div><div>N</div><div>P</div><div>C</div><div>P</div><div>H</div><div>P</div><div>R</div><div>D</div> <div>P</div><div>D</div><div>P</div><div>A</div><div>S</div><div>R</div><div>T</div><div>H</div> </div>
--------------------	---

DESCRIPTION

Background	ELANE, a serine protease, plays a crucial role in modulating the functions of natural killer cells, monocytes, and granulocytes. It acts by inhibiting C5a-dependent neutrophil enzyme release and chemotaxis, highlighting its regulatory role
-------------------	---

in immune responses. Additionally, ELANE participates in the inhibition of pyroptosis by promoting the cleavage of GSDMB, showcasing its involvement in the regulation of programmed cell death. Notably, ELANE exhibits bactericidal activity by effectively killing *E. coli* in vitro, while sparing *S. aureus*. This antimicrobial effect is attributed to its ability to digest outer membrane protein A (ompA) in *E. coli* and *K. pneumoniae*, underscoring its role in bacterial defense mechanisms.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA