

## CELA2A Protein, Human (His)

<b>Cat. No.:</b>	HY-P72135
<b>Synonyms:</b>	CELA2A; ELA2A; Chymotrypsin-like elastase family member 2A; EC 3.4.21.71; Elastase-2A
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P08217 (V29-N269)
<b>Gene ID:</b>	63036
<b>Molecular Weight:</b>	Approximately 29.9 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre>V V G G E E A R P N   S W P W Q V S L Q Y   S S N G K W Y H T C   G G S L I A N S W V L T A A H C I S S S   R T Y R V G L G R H   N L Y V A E S G S L   A V S V S K I V V H K D W N S N Q I S K   G N D I A L L K L A   N P V S L T D K I Q   L A C L P P A G T I L P N N Y P C Y V T   G W G R L Q T N G A   V P D V L Q Q G R L   L V V D Y A T C S S S A W W G S S V K T   S M I C A G G D G V   I S S C N G D S G G   P L N C Q A S D G R W Q V H G I V S F G   S R L G C N Y Y H K   P S V F T R V S N Y   I D W I N S V I A N N</pre>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm solution of 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	CELA2A, identified as an elastase, possesses a distinctive role in cellular glucose metabolism and insulin signaling. This protein is known to circulate in plasma, where it plays a pivotal role in modulating platelet hyperactivation. CELA2A exhibits a dual impact on insulin dynamics, acting to both trigger insulin secretion and facilitate its degradation. Notably, the elastase enhances insulin sensitivity, emphasizing its potential physiological significance in glucose homeostasis. The
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multifaceted actions of CELA2A highlight its intricate involvement in the regulation of insulin signaling, platelet function, and cellular glucose metabolism.

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**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](mailto:tech@MedChemExpress.com)

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