abcam

Product datasheet

Recombinant Human AACT protein ab152025

Description

Product name	Recombinant Human AACT protein
Purity	> 95 % SDS-PAGE. Purity is greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Endotoxin level	< 1.000 Eu/µg
Expression system	HEK 293 cells
Accession	**P01011**
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	HPNSPLDEENLTQENQDRGTHVDLGLASANVDFAFSLYK QLVLKAPDKNV IFSPLSISTALAFLSLGAHNTTLTEILKGLKFNLTETSEAEIHQ SFQHLL RTLNQSSDELQLSMGNAMFVKEQLSLLDRFTEDAKRLYG SEAFATDFQDS AAAKKLINDYVKNGTRGKITDLIKDLDSQTMMVLVNYIFFKA KWEMPFDP QDTHQSRFYLSKKKWVMVPMMSLHHLTIPYFRDEELSCT VVELRYTGNAS ALFILPDQDKMEEVEAMLLPETLKRWRDSLEFREIGELYL PKFSISRDYN LNDILLQLGIEEAFTSKADLSGITGARNLAVSQVVHKAVLD VFEEGTEAS AATAVKITLLSALVETRTIVRFNRPFLMIIVPTDTQNIFFMSK VTNPKQA VDHHHHHH
Predicted molecular weight	46 kDa including tags
Amino acids	24 to 423
Tags	His tag C-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab152025** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE HPLC
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -20°C long term. pH: 7.50 Constituents: 0.48% HEPES, 0.88% Sodium chloride
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in 1X PBS. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. For long term storage aliquot and store at < -20°C.

General Info

Function	Although its physiological function is unclear, it can inhibit neutrophil cathepsin G and mast cell chymase, both of which can convert angiotensin-1 to the active angiotensin-2.
Tissue specificity	Plasma. Synthesized in the liver. Like the related alpha-1-antitrypsin, its concentration increases in the acute phase of inflammation or infection. Found in the amyloid plaques from the hippocampus of Alzheimer disease brains.
Involvement in disease	Defects in SERPINA3 may be a cause of chronic obstructive pulmonary disease (COPD) [MIM:107280].
Sequence similarities	Belongs to the serpin family.
Domain	The reactive center loop (RCL) extends out from the body of the protein and directs binding to the target protease. The protease cleaves the serpin at the reactive site within the RCL, establishing a covalent linkage between the carboxyl group of the serpin reactive site and the serine hydroxyl of the protease. The resulting inactive serpin-protease complex is highly stable.
Cellular localization	Secreted.

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