

**?1-antichymotrypsin, 24-423 aa, Human, His-tag, E.coli**

**Cat.NO.: TP01173**

3th Edition

**Synonyms:**Serpin peptidase inhibitor, clade A, member 3; AACT; ACT; GIG24; GIG25; SERPINA3.

**Description:**Alpha-1-antichymotrypsin is a plasma protease inhibitor and member of the serine protease inhibitor class. Polymorphisms in this protein appear to be tissue specific and influence protease targeting. Variations in this protein's sequence have been implicated in Alzheimer's disease, and deficiency of this protein has been associated with liver disease.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 1mM DTT.

**Molecular Weight:**47.6 kDa (421aa)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMHPNSPLDEENLTQENQDRGTHVDLGLASANVDFAFSLYKQLVLKAPDKNVIFSP  
LSISTALAFSLSLGAHNTTLTEILKGLKFNLTTETSEAEIHQSFFQHLRLNQSSDELQLSMGNAMFVKEQLSLLDRFTED  
AKRLYGSEAFATDFQDSAAAKKLINDYVKNKTRGKITDLIKDLDSQTMMLVNYIFFKAKWEMPFPDQDTHQSRFYL  
SKKKWVMVPMMSLHHLTIPYFRDEELSCVVELKYTGNASALFILPDQDKMEEVEAMLLPETLKRWRDSLEFREIG  
ELYLPKFSISRDNLDILLQLGIEEAFTSKADLSGITGARNLAVSQVVHKAVLDVFEEGTEASAATAVKITLLSALVET  
RTIVRFNRPFLLMIIVPTDQNIFFMSKVTNPKQA

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.