

Recombinant Full Length Human COL25A1 Protein, GST-tagged

Cat. No. COL25A1-2096HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human COL25A1 full-length ORF (AAH36669.1, 1 a.a. - 496 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	496 amino acids
Description	This gene encodes a brain-specific membrane associated collagen. A product of proteolytic processing of the encoded protein, CLAC (collagenous Alzheimer amyloid plaque component), binds to amyloid beta-peptides found in Alzheimer amyloid plaques but CLAC inhibits rather than facilitates amyloid fibril elongation (PMID: 16300410). A study of over-expression of this collagen in mice, however, found changes in pathology and behavior suggesting that the encoded protein may promote amyloid plaque formation (PMID: 19548013). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]
Molecular Mass	77.6 kDa
AA Sequence	MLLKHHAGKGGGREPRSEDPTPAEQHCARTMPPCAVLAALLSVVAVVSCLYLGVKT NDLQARIAALESAGAPSIHLLPDTLDHLKTMVQEKVERLLAQKSYEHMAKIRIAREA PSECNCPPAGPPGKRGKRGRRGESGPPGQPGPQGPQPPGPKGDKGEQGDQGPRGPL GPPGQKGSIGAPGIPGMNGQKGEPGLPGAVGQNGIPGPKGEPGEQGEKGDAGEN

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GPKGDTGEKGDPGSSAAGIKGEPGESGRPGQKGEPGLPGLPGLPGIKGEPGFIGP
 QGEPGLPGLPGTKGERGEAGPPGRGERGEPGAPGPKGKQGEGSTRGPKGSKGD
 RGEKGDSGAQGPRGPPGQKGDQGATEIIDYNGNLHEALQRITTLTVTGPPGPPGPQ
 GLQGTKGEQSGIPGMDGEQGLKGSKGDMGDPGSQWNERRKRRFWNAGSTGS
 FYHRPTRPTRSPWPTWPHGTSWTSWTKGSIWLRRKARIPGYRWSYGTPWPCRSQ
 RRKR

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION
Gene Name

COL25A1 collagen, type XXV, alpha 1 [Homo sapiens]

Official Symbol

COL25A1

Synonyms

COL25A1; collagen, type XXV, alpha 1; collagen alpha-1(XXV) chain; alzheimer
 disease amyloid-associated protein; collagenous Alzheimer amyloid plaque
 component; collagen-like Alzheimer amyloid plaque component; AMY; CLAC;
 CLACP; CLAC-P

Gene ID

84570

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mRNA Refseq	NM_001256074
Protein Refseq	NP_001243003
MIM	610004
UniProt ID	Q9BXS0

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