

LGMN Protein, Human, Recombinant (His)

General Information

Synonyms:	AI746452;Legumain;LGMN1;Prsc1;AEP;LGMN;AU022324
Protein Construction:	Val18-Tyr433
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q99538-1
Molecular Weight:	48.6 kDa (predicted). Due to glycosylation, the protein migrates to 55-65 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μ m filtered solution in PBS (pH 7.4).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Recently, functional studies have demonstrated that legumain (LGMN) cleaves both amyloid β -protein precursor and tau, promoting senile plaques and formation of neurofibrillary tangles, which may play a crucial role in the pathogenesis of Alzheimer's disease (AD). In single-variant association analysis, none of the common variants in LGMN were statistically significant. In gene-based analysis, the LGMN gene also showed no association with AD.

Reference

Zhang X, et al. Lack of association between LGMN and Alzheimer's disease in the Southern Han Chinese population. *Eur J Neurosci.* 2020 Oct;52(8):4009-4017. doi: 10.1111/ejn.14857. Epub 2020 Jun 28. PMID: 32506655.

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