

Product datasheet

Recombinant Human Granulin protein ab108947

Overview

Product name	Recombinant Human Granulin protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli

Amino Acid Sequence

Accession	P28799
Species	Human
Molecular weight	10 kDa including tags
Amino acids	364 to 430
Tags	His tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab108947** 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
Endotoxin level	< 1.000 Eu/μg
Purity	> 90 % SDS-PAGE. ab108947 is 0.2μm filtered.
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. Preservative: None Constituents: 55mM Tris HCl, 150mM Sodium chloride, pH 8.2
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General info

Function	Granulins have possible cytokine-like activity. They may play a role in inflammation, wound repair, and tissue remodeling. Granulin-4 promotes proliferation of the epithelial cell line A431 in culture while granulin-3 acts as an antagonist to granulin-4, inhibiting the growth.
Tissue specificity	In myelogenous leukemic cell lines of promonocytic, promyelocytic, and proerythroid lineage, in fibroblasts, and very strongly in epithelial cell lines. Present in inflammatory cells and bone marrow. Highest levels in kidney.
Involvement in disease	Defects in GRN are the cause of ubiquitin-positive frontotemporal dementia (UP-FTD) [MIM:607485]; also known as tau-negative frontotemporal dementia linked to chromosome 17. Frontotemporal dementia (FTD) is the second most common cause of dementia in people under the age of 65 years. It is an autosomal dominant neurodegenerative disease.
Sequence similarities	Belongs to the granulin family.
Post-translational modifications	Granulins are disulfide bridged.
Cellular localization	Secreted.

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