



Progranulin, human recombinant

Catalog No: 97208
Lot No: XXXXX
Source: HEK293
Synonyms: GRN, PGRN, granulin, Acrogranin, propithelin, PC cell derived growth Factor, GEP, GP88, PEPI, PCDGF

Background

A 88-kDa progranulin, also called proepithelin and PC cell-derived growth factor, is a single precursor protein of granulins which are a family of secreted, glycosylated peptides that are cleaved from a single precursor protein with 7.5 repeats of a highly conserved 12-cysteine granulin/epithelin motif. Granulins are a variety of active, 6 kDa peptides and named granulin A (epithelin 1), granulin B (epithelin 2), granulin C, etc. Both the peptides and intact progranulin protein regulate cell growth. However, different members of the granulin protein family may act as inhibitors, stimulators, or have dual actions on cell growth. Granulin family members are important in normal development, wound healing, and tumorigenesis.

Description

Progranulin human recombinant produced in HEK 293 cells is a single, glycosylated, polypeptide chain containing amino acids 1-593 and having a molecular mass of 74 kDa. Progranulin is purified by standard chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

The protein contains 1xPBS.

Solubility

It is recommended to reconstitute the lyophilized Progranulin in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Progranulin although stable at room temperature for 3 weeks, should be stored desiccated below -18C. Upon reconstitution PGRN should be stored at 4C between 2-7 days and for future use below -18C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Avoid multiple freeze-thaw cycles.

Purity

Greater than 98.0% as determined by SDS-PAGE.

Activity

Activates phospho-ERK1/2 in neuronal mouse P19 cells and regulates food intake and body weight.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

CONTACT US TODAY

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • info@biomol.de • www.biomol.de

Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51