



Product Datasheet

Product Name	Recombinant Human Progranulin
Cata No	CB500426
Source	Escherichia Coli.
Abbreviated Name	PGRN

Description

Progranulin Human Recombinant fused to FLAG at C-terminus produced in HEK is a single, glycosylated, polypeptide chain containing 593 amino acids and having a molecular mass of 88 kDa. The Progranulin is purified by standard chromatographic techniques.

Purity

Greater than 90.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Physical Appearance

Sterile Filtered clear solution.

Specific Activity

1. The effects of phospho-ERK1/2 and non phospho-ERK1/2 by human progranulin-FLAG in THP-1 cells.
To examine the signal of phospho-p44/42 MAPK and p44/42 MAP kinase, reactions were carried out at 37 degrees Celsius over 0, 30, 60, minutes, respectively by adding the recombinant protein (100ng/ml) to the THP-1 monocyte cell, which was maintained with serum starvation for 24hrs.

Recombinant proteins in lanes 1, 2, and 3 were subjected to THP-1 monocyte cell treatments over 0, 30, 60mins, respectively.

2. The effects of phospho-ERK1/2 and non phospho-ERK1/2 by human progranulin-FLAG in MCF10A cells. To examine the signal of phospho-p44/42 MAPK and p44/42 MAP kinase, reactions were carried out at 37 degrees Celsius over 0, 10, 30, 60mins, respectively by adding the recombinant protein(500ng/ml) to the MCF10A human breast epithelial cells, which was maintained with serum starvation for 24hrs. Recombinant proteins in lanes 2, 3, and 4 were subjected to MCF10A human breast epithelial cell treatments over 0, 10, 30, 60mins, respectively.

Storage

Progranulin although stable at 4°C for 3 weeks, should be stored at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Formulation

The protein solution contains 1x PBS.

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