

Recombinant Human Filaggrin, GST-tagged

Cat. No. FLG-1367H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Filaggrin expressed in <i>E.coli</i> , shows a 53 kDa SDS-PAGE (Including GST). The Filaggrin is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	Filaggrins are an important class of the intermediate filament-associated proteins which interact with keratin intermediate filaments (Ifs) of terminally differentiating mammalian epidermis. Filaggrins exhibit wide species variations. Filaggrin also appears to be a target molecule for rheumatoid arthritis-specific auto-antibodies in humans. Profilaggrin is a key protein component of the keratohyalin granules of mammalian epidermis. It is primarily expressed as a large polypeptide precursor which is later proteolytically processed into individual functional filaggrin molecules. Persons with truncation mutations in the filaggrin gene, are strongly predisposed to a severe form of dry skin, (ichthyosis vulgaris), and/or eczema. It was shown that approximately 50% of all severe cases of eczema may have at least one mutated filaggrin gene. Truncation mutations R501X and 2284del4 are the most widespread mutations in the caucasian population, with 7-10% of the caucasian population carrying at least one copy of these mutations. R501X and 2284del4 are not usually found in non-caucasian individuals, nevertheless novel mutations (3321delA and S2554X) have been found in Japanese populations that yield similar effects.
Physical Appearance	Sterile Filtered clear solution.

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Applications	• ELISA • Inhibition Assays • Western Blotting.
Formulation	Filaggrin at 100g/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.
Stability	Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	FLG filaggrin [Homo sapiens]
Synonyms	Filaggrin; ATOD2; FLG; epidermal filaggrin; OTTHUMP00000014057
Gene ID	2312
mRNA Refseq	NM_002016
Protein Refseq	NP_002007
MIM	135940
UniProt ID	P20930
Chromosome Location	1q21.3
Function	calcium ion binding; structural molecule activity

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