

Recombinant Human FLG protein, His-tagged

Cat. No. FLG-1229H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FLG(Ser3905~Tyr4031) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ser3905~Tyr4031
Description	The protein encoded by this gene is an intermediate filament-associated protein that aggregates keratin intermediate filaments in mammalian epidermis. It is initially synthesized as a polyprotein precursor, profilaggrin (consisting of multiple filaggrin units of 324 aa each), which is localized in keratohyalin granules, and is subsequently proteolytically processed into individual functional filaggrin molecules. Mutations in this gene are associated with ichthyosis vulgaris.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300
Molecular Mass	25kDa
AA Sequence	SHRDTA SHVRSSPVQS DSSTAKEHGH FSSLSQDSAY HSGIQSRGSP
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 95%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	FLG filaggrin [Homo sapiens]
Official Symbol	FLG
Synonyms	FLG; filaggrin; epidermal filaggrin; ATOD2;
Gene ID	2312
mRNA Refseq	NM_002016
Protein Refseq	NP_002007
MIM	135940
UniProt ID	P20930

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Chromosome Location	1q21.3
Function	calcium ion binding; nucleoside-triphosphatase activity; structural molecule activity;

