



Product Datasheet

Product Name	Involucrin Human Recombinant
Cata No	CB501128
Source	<i>Escherichia Coli.</i>
Synonyms	Involucrin, IVL.

Description

Involucrin is a soluble cytoplasmic protein precursor of the epidermal cornified envelope that becomes cross-linked by transglutaminase during envelope assembly. Involucrin is expressed in a range of stratified squamous epithelia, including the cornea which lacks a distinct cornified layer. The protein is a useful marker of terminal differentiation. It is tightly linked to the onset of differentiation and first expressed in the immediate suprabasal layers of the epidermis.

Involucrin is mapped to 1q21 chromosome, among calpactin I light chain, trichohyalin, profillaggrin, loricrin, and calcyclin.

Involucrin's structure is composed of a conserved region of about 75 amino acid residues followed by two very variable length segments that contain glutamine-rich tandem repeats. The glutamine residues in the tandem repeats are the substrate for the transglutaminase in the cross-linking reaction.

The size of the protein varies from 285 residues (in dog) to 835 residues (in orangutan).

Involucrin Human Recombinant (aa 420-578)

expressed in E.coli, shows a 41 kDa band on SDS-PAGE.

The Involucrin is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered clear solution.

Formulation

Involucrin at 100µg/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.

Applications

- ELISA
- Inhibition Assays
- Western Blotting