

## Recombinant Full Length Human COL7A1 Protein, Avi&Flag&His tagged, Biotinylated

**Cat. No.** COL7A1-01HFL    **Lot. No.** (See product label)

### SPECIFICATION

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>  | Biotinylated Full Length Human COL7A1 Protein (1-2944 aa) with C-Avi-Flag-His tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>           | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>            | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>     | 1-2944 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Conjugation/Label</b> | Biotin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>       | This gene encodes the alpha chain of type VII collagen. The type VII collagen fibril, composed of three identical alpha collagen chains, is restricted to the basement zone beneath stratified squamous epithelia. It functions as an anchoring fibril between the external epithelia and the underlying stroma. Mutations in this gene are associated with all forms of dystrophic epidermolysis bullosa. In the absence of mutations, however, an acquired form of this disease can result from an autoimmune response made to type VII collagen. |
| <b>Form</b>              | PBS, pH 7.3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>    | 298 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>            | > 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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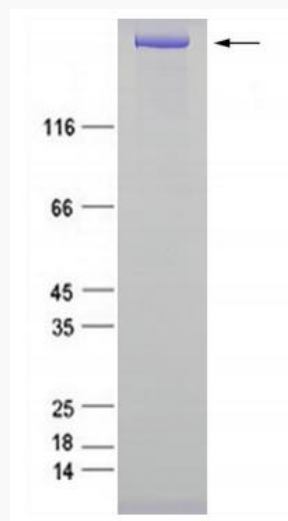
|                         |                                                                                                                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes</b>            | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process                                                                                                                       |
| <b>Storage</b>          | Store at –80 centigrade. Avoid repeated freeze-thaw cycles. Stable for at least 1 year from receipt of products under proper storage and handling conditions.                                                                                                             |
| <b>Concentration</b>    | 0.12 mg/mL                                                                                                                                                                                                                                                                |
| <b>Biotinylation</b>    | The biotin to protein ratio is 1.00 as determined by Streptavidin Pull-Down Assay.                                                                                                                                                                                        |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                           |
| <b>Gene Name</b>        | COL7A1 collagen, type VII, alpha 1 [ Homo sapiens (human) ]                                                                                                                                                                                                               |
| <b>Official Symbol</b>  | COL7A1                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>         | COL7A1; collagen, type VII, alpha 1; EBD1, EBDCT, EBR1, epidermolysis bullosa, dystrophic, dominant and recessive; collagen alpha-1(VII) chain; collagen VII; alpha 1 polypeptide; LC collagen; long-chain collagen; collagen VII, alpha-1 polypeptide; EBD1; EBR1; EBDCT |
| <b>Gene ID</b>          | 1294                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>      | NM_000094                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>   | NP_000085                                                                                                                                                                                                                                                                 |
| <b>MIM</b>              | 120120                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>       | Q02388                                                                                                                                                                                                                                                                    |

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SDS-PAGE



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