

# Recombinant Human HR Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** HR-3980H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | HR MS Standard C13 and N15-labeled recombinant protein (NP_060881) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | This gene encodes a protein that is involved in hair growth. This protein functions as a transcriptional corepressor of multiple nuclear receptors, including thyroid hormone receptor, the retinoic acid receptor-related orphan receptors and the vitamin D receptors, and it interacts with histone deacetylases. The translation of this protein is modulated by a regulatory open reading frame (ORF) that exists upstream of the primary ORF. Mutations in this upstream ORF cause Marie Unna hereditary hypotrichosis (MUHH), an autosomal dominant form of genetic hair loss. Mutations in this gene also cause autosomal recessive congenital alopecia and atrichia with papular lesions, other diseases resulting in hair loss. Two transcript variants encoding different isoforms have been found for this gene. |
| <b>Molecular Mass</b>   | 121.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MESTPSFLKGTPTWEKTAPENGIVRQEPGSPPRDGLHHGPLCLGEPAPFWRGVLS<br>TPDSWLPPGFPQGPKDMLPLVEGEGPQNGERKVNWLGSKEGLRWKEAMLTHPLA<br>FCGPACPPRCGPLMPEHSGGHLKSDPVAFRPWHCPFLLETKILERAPFWVPTCLPP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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YLVSGLPPEHPCDWPLTPHPWVYSGGQPKVPSAFSLGSKGFYYKDPSIPRLAKEPL  
 AAEPGLFGLNSGGHLQRAGEAERPSLHQRDGEMGAGRQQNPCPLFLGQPDTVP  
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 GLPLSPVRPRLPPPGALLWLQEPQPCPRRGFHLFQEHWRQGQPVLVSGIQRTLQG  
 NLWGTEALGALGGQVQALSPLGPPQPSSLGSTTFWEGFSWPELRPKSDEGSVLLL  
 HRALGDEDTSRVENLAASLPLPEYCALHGKLNLASYLPPGLALRPLEPQLWAAYGVS  
 PHRGHLGTKNLCVEVADLVSVLVHADTPLPAWHRAQKDFLSGLDGEGLWSPGSQVS  
 TVWHVFRAQDAQRIRRFQMVQGLVSTVSVTQHFLSPETSALSAQLCHQGPSLPPD  
 CHLLYAQMDWAVFQAVKVAVGTLQEAKTRTRPLEQKLISEEDLAANDILDYKDDDDK  
 V

|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

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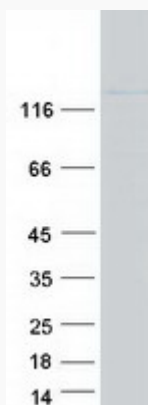
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## GENE INFORMATION

|                        |                                                                                    |
|------------------------|------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | HR HR lysine demethylase and nuclear receptor corepressor [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | HR                                                                                 |
| <b>Synonyms</b>        | HR; hairless homolog (mouse); ALUNC, hairless (mouse) homolog; AU; ALUNC;          |
| <b>Gene ID</b>         | 55806                                                                              |
| <b>mRNA Refseq</b>     | NM_018411                                                                          |
| <b>Protein Refseq</b>  | NP_060881                                                                          |
| <b>MIM</b>             | 602302                                                                             |
| <b>UniProt ID</b>      | O43593                                                                             |

## SDS-PAGE



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