

## Recombinant Human AGER, Flag-tagged

Cat. No. AGER-3649H Lot. No. (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Total 331 AA, MW: 35.2 kDa (calculated). C-terminal Flag-tag 11 AA (highlighted).   |
| <b>Species</b>          | Human   |
| <b>Source</b>           | HEK293  |
| <b>Description</b>      | RAGE, the Receptor for Advanced Glycation Endproducts is a 35kD transmembrane receptor of the immunoglobulin super family which was first characterized in 1992 by Neeper et al. It is also called AGER. Its name comes from its ability to bind advanced glycation endproducts (AGE), which include chiefly glycoproteins the glycans of which have been modified non-enzymatically through the Maillard reaction. |
| <b>Form</b>             | Filtered (0.4 um) and lyophilized from 0.5 mg/ml in 50 mM Tris-HCl pH 7.5, 50 mM NaCl.  |
| <b>Research topic</b>   | Diabetology - Other Relevant Products, Neural tissue damage markers, Renal disease.   |
| <b>Purity</b>           | >95%  |
| <b>Reconstitution</b>   | Add deionized water to a working concentration approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter this product by appropriate sterile filter before using it in the cell culture.  |
| <b>Applications</b>     | ELISA, Western blotting   |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                                 |   |
|---------------------------------|---|
| <b>Quality Control Test</b>     | BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein.  |
| <b>Sequences of amino acids</b> | AQNITARIGE PLVLKCKGAP KKPPQRLEWK LNTGRTEAWK VLSPQGGGPW<br>DSVARVLPNG SLFLPAVGIQ DEGIFRCQAM NRNGKETKSN YRVRVYQIPG<br>KPEIVDSASE LTAGVPNKVG TCVSEGSYPA GTLSWHLDGK PLVPNEKGVS<br>VKEQTRRHPE TGLFTLQSEL MVTPARGGDP RPTFSCSFSP GLPRHRALRT<br>APIQPRVWEP VPLEEVQLVV EPEGGAVAPG GTVTLTCEVP AQPSPQIHWM<br>KDGVPLPLPP SPVLILPEIG PQDQGTYSKV ATHSSHGPQE SRAVSISIIE<br>PGEEGPTAGS VGGSGGLGTLA AAADYKDDDD K                   |
| <b>Storage</b>                  | Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C. The lyophilized protein remains stable until the expiry date when stored at -20°C.   |
| <b>GENE INFORMATION</b>         |   |
| <b>Gene Name</b>                | AGER advanced glycosylation end product-specific receptor [ Homo sapiens ]  |
| <b>Official Symbol</b>          | AGER  |
| <b>Synonyms</b>                 | AGER; advanced glycosylation end product-specific receptor; RAGE; MGC22357; OTTHUMP00000029155; OTTHUMP00000029156; OTTHUMP00000029157; OTTHUMP00000029158; OTTHUMP00000174885; Advanced glycosylation end product-specific receptor; Receptor for advanced glycosylation end products; RAGE isoform delta; RAGE isoform NtRAGE-delta; RAGE isoform sRAGE-delta; receptor for advanced glycosylation end-products |
| <b>Gene ID</b>                  | 177   |

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| <b>mRNA Refseq</b>         | NM_001136   |
| <b>Protein Refseq</b>      | NP_001127   |
| <b>MIM</b>                 | 600201  |
| <b>Uniprot ID</b>          | Q15109  |
| <b>Chromosome Location</b> | 6p21.3  |
| <b>Function</b>            | S100 alpha binding; advanced glycation end-product receptor activity; protein binding; receptor activity; transmembrane receptor activity |

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