

Recombinant Human AGER, Flag-tagged

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

SPECIFICATION

Product Overview	Total 331 AA, MW: 35.2 kDa (calculated). C-terminal Flag-tag 11 AA (highlighted).
Species	Human
Source	HEK293
Description	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.
Form	Filtered (0.4 um) and lyophilized from 0.5 mg/ml in 50 mM Tris-HCl pH 7.5, 50 mM NaCl.
Research topic	Diabetology - Other Relevant Products, Neural tissue damage markers, Renal disease.
Purity	>95%
Reconstitution	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.
Applications	ELISA, Western blotting

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein.
Sequences of amino acids	AQNITARIGE PLVLKCKGAP KKPPQRLEWK LNTGRTEAWK VLSPQGGGPW DSVARVLPNG SLFLPAVGIQ DEGIFRCQAM NRNGKETKSN YRVRVYQIPG KPEIVDSASE LTAGVPNKVG TCVSEGSYP A GTLSWHLDGK PLVPNEKGVS VKEQTRRHPE TGLFTLQSEL MVTPARGGDP RPTFSCSFSP GLPRHRALRT APIQPRVWEP VPLEEVQLVV EPEGGAVAPG GTVTLTCEVP AQPSPQIHWM KDGVPPLPPP SPVLILPEIG PQDQGTYS CV ATHSSHGPQE SRAVSISIIE PGEEGPTAGS VGGSGLGTLA AAADYKDDDD K
Storage	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.
GENE INFORMATION	
Gene Name	AGER advanced glycosylation end product-specific receptor [Homo sapiens]
Official Symbol	AGER
Synonyms	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
Gene ID	177

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

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