

Recombinant Human AGER, His-tagged

Cat. No. AGER-3648H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Total 339 AA. MW: 36.5 kDa. N-Terminal His-tag 14 AA (highlighted).
Species	Human
Source	E.coli
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.
Form	Filtered (0.4 um) and lyophilized in 0.5 mg/ml in 0.03 M Acetate buffer, pH 4.
Research topic	Diabetology - Other Relevant Products, Neural tissue damage markers, Renal disease.
Purity	>95%
Reconstitution	Add 0.1M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10ug/ml. In higher concentrations the solubility of this antigen is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Applications	Western blotting

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Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein
Sequences of amino acids	MRGSHHHHHH GMASAQNITA RIGEPLVLKC KGAPKKPPQR LEWKLNTGRT EAWKVLSPQG GGPWDSVARV LPNGSLFLPA VGIQDEGIFR CQAMNRNGKE TKSNYRVRVY QIPGKPEIVD SASELTAGVP NKVGTCVSEG SYPAGTLSWH LDGKPLVPNE KGVSVKEQTR RHPETGLFTL QSELMVTPAR GGDPRPTFSC SFSPGLPRHR ALRTAPIQPR VWEVPVLEEVL QLVVEPEGGA VAPGGTVTLT CEVPAQPSQ IHWMKDGVPL PLPPSPVLIL PEIGPQDQGT YSCVATHSSH GPQESRAVSI SIIEPGEEGP TAGEGFDKVR EAEDSPQHM
Storage	Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°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

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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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