

## PRODUCT INFORMATION

**RAGE (Receptor for advanced glycation endproducts), Human**

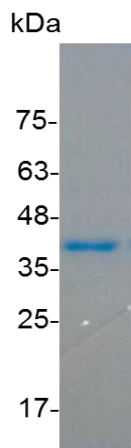
<b>Catalog number</b>	C01171-5UG / C01171-20UG / C01171-100UG
<b>Package</b>	5 µg / 20 µg / 100 µg
<b>Description</b>	<p>RAGE (receptor for advanced glycation endproducts), also called AGER, is a 35 kilodalton transmembrane receptor of the immunoglobulin super family, as a signal transduction receptor which binds advanced glycation endproducts, certain members of the S1/calgranulin family of proteins, high mobility group box 1 (HMGB1), advanced oxidation protein products, and amyloid (beta-sheet fibrils). Initial studies investigating the role of RAGE in renal dysfunction focused on diabetes, neurodegenerative disorders, and inflammatory responses. However, RAGE also has roles in the pathogenesis of renal disorders that are not associated with diabetes, such as obesity-related glomerulopathy, doxorubicin-induced nephropathy, hypertensive nephropathy, lupus nephritis, renal amyloidosis, and ischemic renal injuries. RAGE represents an important factor in innate immunity against pathogens, but it also interacts with endogenous ligands, resulting in chronic inflammation. RAGE signaling has been implicated in multiple human illnesses, including atherosclerosis, arthritis, Alzheimer's disease, atherosclerosis and aging associated diseases.</p>
<b>Source</b>	<i>Escherichia coli</i>
<b>Sequence</b>	<p>MAQNITARIGEPLVLKCKGAPKKPPQRLEWKLNTGRTEAWKVLSPQGGGPWD  SVARVLPNGSLFLPAVGIQDEGIFRCQAMNRNGKETKSNYRVRVYQIPGKPEIV  DSASELTAGVPNKVGTVCVSEGSYPAGTLSWHLDGKPLVPNEKGVSVKEQTRR  HPETGLFTLQSELMVTPARGGDP RPTFSCSFSPGLPRHRALRTAPIQPRWEP  VPLEEVQLVVEPEGGAVAPGGTVTLTCEVPAQPSPQIHWMKDGVPLPLPPSPV  LILPEIGPQDQGTYS with polyhistidine tag at the C-terminus</p>
<b>Endotoxin level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>98% as determined by SDS-PAGE. Ni-NTA chromatography
<b>Formulation</b>	The protein was lyophilized from a solution containing 1X PBS, pH 8.0.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Storage</b>	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.

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**Note**

Please use within one month after protein reconstitution.

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SDS-PAGE analysis of recombinant human RAGE

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