

RMCH146

Recombinant RAGE (Receptor for advanced glycation endproducts), Human , AF



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5ug;20ug;100ug;500ug;

Synonym/Alternative name(s):

advanced glycosylation end-product specific receptor, AGER, SCARJ1

Activity : N/A

Protein Description:

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.

Protein Accession : Q15109.1

Gene ID : 177

Expression Sequence:

MAQNITARIGEPLVLKCKGAPKKPPQRLWKLNTGRTEAWKVLSPQGGPWDSVARVLPNGSLFLPAVGIQDEGIFRCQAMNRRNGK
ETKSNYRVRVYQIPGKPEIVDSASELTAGVPNKVGTVCVSEGSYPAGTLSWHLDGKPLVPNEKGVSVKEQTRRRHPETGLFTLQSELMVTP
ARGGDRPTFSCSFSPGLPRHRALRTAPIQPRVWEPVPLEEVQLVVEPEGGAVAPGGTTLTCEVPAQSPQIHWMKDGVPLPLPSP
VLILPEIGPQDQGTYS with polyhistidine tag at the C-terminus.

Fusion tag : His-tag?at?the?C-terminus

Species : Human

Reactivity : Human

Expression Host : Escherichia coli

Source : E. coli

Purity/method:

>98% as determined by SDS-PAGE. Ni-NTA chromatography

Endotoxin level:

<0.1 EU per 1 µg of the protein by the LAL method.

Calculated Molecular Weight : 30.94 kDa

Formulation:

The protein was lyophilized from a solution containing 1X PBS, pH 8.0.

Reconstitution:

It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Shipping : Blue Ice

Stability and Storage:

Lyophilized protein should be stored at -20°C for 1 year.

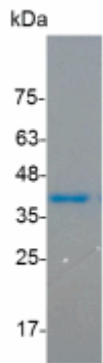
Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1%

BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months.

Category : Cytokines

Application : Cell culture, Elisa

Image:



SDS- PAGE analysis of recombinant human RAGE