Product Datasheet

Product Name	Advanced Glycosylation End Product-Specific Receptor Human Recombinant
Cata No	CB501457
Source	*Escherichia Coli.*
Synonyms	Advanced glycosylation end product-specific receptor, Receptor for advanced glycosylation end products, AGER, SRAGE, RAGE, MGC22357.

Description

sRAGE is a member of the immunoglobulin superfamily of cell surface molecules. sRAGE is a receptor for various molecules, including the amyloidogenic form of serum amyloid A, amyloid-beta protein, members of the S100/calgranulin superfamily and advanced glycation end products. sRAGE lies within the major histocompatibility complex (MHC) class III region on chromosome 6. Alternative splicing results in two transcript variants encoding different isoforms. sRAGE mediates interactions of nonenzymatic glycosylated proteins which accumulate in vascular tissue during aging & at an increasing rate in diabetes. sRAGE is a receptor for amyloid beta peptide.

sRAGE Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 134 amino acids and having a molecular mass of 15kDa.

The Human sRAGE is fused to His tag at N-Terminus.

The Human sRAGE is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Purity

Greater than 95% as determined by SDS-PAGE.

Formulation

The sterile filtered concentrated (0.5mg/ml) protein solution was lyophilized with 20mM Tris & 50mM NaCl pH-7.5.

Reconstitution

Add 0.1M Acetate buffer pH4 to a working concentration of 0.5mg/ml and let the lyophilized pellet dissolve completely.

Stability

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.

Sequence

MRGSHHHHHH GMASATPKQG PRMLGAPEEA DANEEGVRRA LDFAVSEYNK GSNDAYHSRA IQVVRARKQL VAGVNYFLDV EMGRTTCTKS QTNLTDCPFH DQPHLMRKAL CSFQIYSVPW KGTHSLTKFSCKNA

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