
Product Data Sheet

Product Name: RAGE Human, Sf9

Cat. No.: GP26347

Batch No.: 1

Product Data

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms Advanced Glycosylation End-Product Specific Receptor, Advanced Glycosylation End Product-Specific Receptor, RAGE, Receptor for Advanced Glycation End-Products Variant 20, Receptor for Advanced Glycosylation End Products, Receptor for Advanced Glycation End-Products, RAGE Isoform NtRAGE-Delta, RAGE Isoform SRAGE-Delta, SCARJ1.

Amino Acid Sequence
 ADLQNITARI GEPLVLKCKG APKKPPQRLE WKLNTGRTEA WKVLSPQGGG
 PWDSVARVLP NGSFLPAVG IQDEGIFRCQ AMNRNGKETK SNYRVRVYQI
 PGKPEIVDSA SELTAGVPNK VGTCVSEGSY PAGTLSWHLG GKPLVPNEKG
 VSVKEQTRRH PETGLFTLQS ELMVTPARGG DPRPTFSCSF SPGLPRHRAL
 RTAPIQPRVW EPVPLEEVQL VVEPEGGAVA PGGTVTLTCE VPAQPSQIH
 WMKDGVPLPL PPSPVLILPE IGPQDQGTYS CVATHSSHGP QESRAVSISI
 IEPGEEGPTA GSVGGSGLGT LALEPKSCDK THTCPPCPAP ELLGGPSVFL
 FPPKPKDTLM ISRTPEVTCV VVDVSHEDPE VKFNWYVDGV EVHNAKTKPR
 EEQYNSTYRV VSVLTVLHQD WLNGKEYKCK VSNKALPAPI EKTISKAKGQ
 PREPQVYTLV PSRDELTKNQ VSLTCLVKGF YPSDIAVEWE SNGQPENNYK
 TTPPVLDSDG SFFLYSKLTV DKSRWQQGNV FSCSVMHEA HNHYTQKSL
 LSPGKHHHHH H.

Formulation The RAGE solution (0.25mg/1ml) contains Phosphate-Buffered Saline (pH 7.4) and 10% glycerol.

Introduction

Advanced Glycosylation End Product-Specific Receptor or RAGE is an immunoglobulin, part of the immunoglobulin transmembrane proteins family. RAGE moderates interactions between advanced glycosylation end products, also known as AGE. These

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signaling has a crucial part in the regulation of TNF α , oxidative stress, endothelial dysfunction in type 2 diabetes production and expression. RAGE helps the translocation of ABPP (amyloid-beta peptide) through the membrane of cells to the intracellular area in the cortical neurons.

Biological Activity

Measured by the ability of the binding activity in a functional ELISA. The ED50 range $\leq 15 \mu\text{g/ml}$.

Stability

Store at 4 $^{\circ}\text{C}$ if entire vial will be used within 2-4 weeks. Store, frozen at -20 $^{\circ}\text{C}$ for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

RAGE Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 561 amino acids (24-342 a.a) and having a molecular mass of 61.2kDa. RAGE is fused to a 242 amino acid hIgG-His-tag at C-terminus & purified by proprietary chromatographic techniques.

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