



Recombinant Protein Technical Manual
Recombinant Human AGER/RAGE Protein (His Tag)
RPES2165

Product Data:

Product SKU: RPES2165

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q15109

Protein Information:

Molecular Mass: 35.2 kDa

AP Molecular Mass: 55 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Advanced Glycosylation End Product-Specific Receptor; Receptor for Advanced Glycosylation End Products; AGER; RAGE

Immunogen Information:

Sequence: Ala23-Ala344

Background:

Advanced Glycosylation End Product-Specific Receptor (AGER) belongs to the immunoglobulin superfamily of cell surface molecules. It lies within the major histocompatibility complex (MHC) class III region on chromosome 6. Besides AGEs, AGER is also able to bind other ligands which is thought to result in pro-inflammatory gene activation. It is known that AGER serve as a mediator of both acute and chronic vascular inflammation in certain conditions such as atherosclerosis and in particular as a complication of diabetes. Furthermore, it plays an important role in regulating the production/expression of TNF-alpha, oxidative stress, and endothelial dysfunction in type 2 diabetes.