For Research Use Only Recombinant Human AGER/RAGE protein (rFc Tag)



Catalog Number: Eg3860

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE		
	Endotoxin Level: <0.1 EU/ µ g protein, LAL method		
	Source: HEK293-derived Human AGER protein Ala23-Ala342 (Accession#Q15109-1) with a rabbit IgG Fc tag at the C- terminus.		
	GenelD: 177		
	Accession: Q15109-1		
	Predicted Molecular N 60.3 kDa	Aass:	
	SDS-PAGE: 68-85 kDa, reducing (R) conditions		
	Formulation: Lyophilized from 0.22 protectants before ly	µm filtered solution in PBS, pH 7.4. Normally ophilization.	y 5% trehalose and 5% mannitol are added as
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended th	at the protein be aliquoted for optimal stora	ge. Avoid repeated freeze-thaw cycles.
	 Until expiry c 3 months, -20 	late, -20 $^\circ\!\!\mathbb{C}$ to -80 $^\circ\!\!\mathbb{C}$ as lyophilized proteins.) $^\circ\!\!\mathbb{C}$ to -80 $^\circ\!\!\mathbb{C}$ under sterile conditions after re-	constitution.
	Shipping: The product is shippe temperature.	d at ambient temperature. Upon receipt, stor	e it immediately at the recommended
Reconstitution	Briefly centrifuge the	tube before opening. Reconstitute at 0.1-0.5	5 mg/mL in sterile water.
Background	AGER/RAGE is a multiligand receptor belonging to the immunoglobulin superfamily of cell surface receptors. It is highly expressed in inflammation-related pathological states and is associated with severe chronic pathologies, including diabetic complications, chronic inflammation, and cancer. Soluble forms of RAGE (sRAGE) are produced by proteolytic cleavage of full-length RAGE and alternative mRNA splicing. sRAGE can antagonize full-length RAGE and other receptors by binding DAMPs and other ligands, inhibiting leukocyte recruitment in various acute and chronic inflammatory conditions. sRAGE also has been identified as possessing therapeutic potential, as it can alleviate myocardial fibrosis and suppress autophagy and ischemia/reperfusion injury in rodent studies.		
References	1. Fritz G. (2011). Trends Biochem Sci 36(12):625-632. 2. Sparvero LJ. et al. (2009). J Transl Med 7:17. 3. Wang B. et al. (2024). Cardiovasc Drugs Ther.		
Synonyms	AGER, RAGE, Advanced	glycosylation end product-specific receptor	

Selected Validation Data



Purity of Recombinant Human AGER was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.