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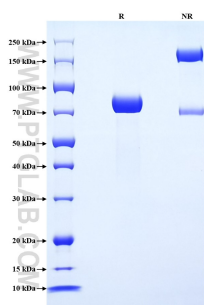
Recombinant Human SPINT1 protein (rFc Tag) (HPLC verified)



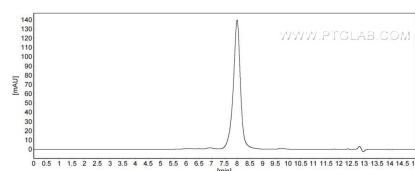
Catalog Number: Eg3131

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE >90 %, SEC-HPLC	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE >90 %, SEC-HPLC Endotoxin Level: <0.1 EU/ μg protein, LAL method Source: HEK293-derived Human SPINT1 protein Ala35-Glu465 (Accession# O43278-1) with a rabbit IgG Fc tag at the C-terminus. GeneID: 6692 Accession: O43278-1 Predicted Molecular Mass: 73.8 kDa SDS-PAGE: 70-80 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">• Until expiry date, -20°C to -80°C as lyophilized proteins.• 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	SPINT1, or Serine Peptidase Inhibitor, Kunitz Type 1, is a protein encoded by the SPINT1 gene in humans. SPINT1 functions as a potent inhibitor specific for HGF activator and is thought to be involved in the regulation of the proteolytic activation of HGF in injured tissues. It has been shown to modulate HGF/MET activation in certain cancer types, suggesting its role in tumor biology (PMID: 29532159). Furthermore, SPINT1 has been implicated in glucose homeostasis and insulin production. Studies have shown that SPINT1 disruption in mouse pancreas leads to glucose intolerance and impaired insulin production, involving the HEPSIN/MAFA signaling pathway (PMID: 39627229).		
References	<ol style="list-style-type: none">1. Liu CL. et al. (2018). Histochem Cell Biol. 149(6):635-644.2. Lin HH. et al. (2024). Nat Commun. 15(1):10537.		
Synonyms	HAI 1, HAI-1, HAI, HAI1, Kunitz-type protease inhibitor 1		

Selected Validation Data



Purity of Recombinant Human SPINT1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Human SPINT1 was greater than 90% as determined by SEC-HPLC.