

For Research Use Only

Recombinant Mouse Mup1 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg3024

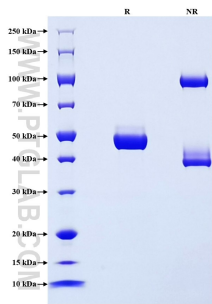
Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE >90 %, SEC-HPLC	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE >90 %, SEC-HPLC Endotoxin Level: <0.1 EU/µg protein, LAL method Source: HEK293-derived Mouse Mup1 protein Glu19-Glu180 (Accession# P11588) with a rabbit IgG Fc tag at the C-terminus. GeneID: 17840 Accession: P11588 Predicted Molecular Mass: 44.7 kDa SDS-PAGE: 45-50 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. • 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	Mup1, or major urinary protein 1, is a member of the lipocalin family and is abundantly secreted into the circulation by the liver. It binds to lipophilic pheromones and is excreted in urine, mediating chemical communication in rodents. Beyond its role in chemical signaling, Mup1 has been identified as a regulator of glucose and lipid metabolism. Mup1 expression is significantly reduced in genetic and dietary fat-induced obesity and diabetes. Mup1 has been shown to suppress hepatic gluconeogenesis and promote energy expenditure in skeletal muscle by stimulating mitochondrial biogenesis and function. In chronic alcohol-induced metabolic disorders, Mup1 mediates the alleviation of hepatic endoplasmic reticulum (ER) stress and insulin resistance.		
References	1.Zhou Y. et al. (2009). J Biol Chem. 284(17):11152-11159. 2.Zhou Y. et al. (2010). Vitam Horm. 83:151-163. 3.Zhang H. et al. (2024). Gut Microbes. 16(1):2367342.		
Synonyms	Major urinary protein 1		

For technical support and original validation data for this product please contact

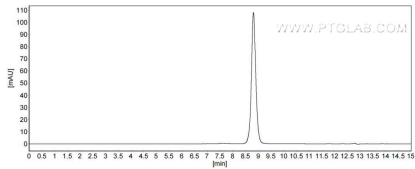
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Selected Validation Data



Purity of Recombinant Mouse Mup1 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 Mouse Mup1 was greater than 90% as determined by SEC-HPLC.