

Human LRP2 (2699-3111) Protein

Cat. No. LRP-HM623

Description

Source	Recombinant Human LRP2 (2699-3111) Protein is expressed from HEK293 with His tag and Strep-II tag at the C-terminus. It contains Arg2699-Ile3111.
Accession	P98164
Molecular Weight	The protein has a predicted MW of 48.83 kDa. Due to glycosylation, the protein migrates to 70-90 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 µm filtered solution in 10mM HEPES, 150mM NaCl, 5mM CaCl ₂ , 0.005% Tween-20 (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Megalin (or LRP2) is an endocytic receptor that plays a central role in embryonic development and adult tissue homeostasis. Loss of this receptor in congenital or acquired diseases results in multiple organ dysfunctions, including forebrain malformation (holoprosencephaly) and renal reabsorption defects (renal Fanconi syndrome).

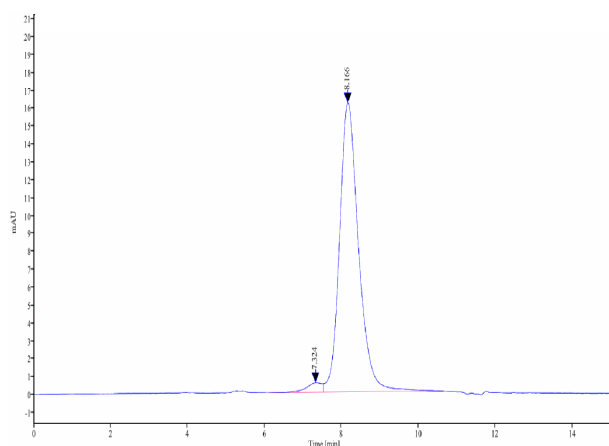
Assay Data

Bis-Tris PAGE



Human LRP2 (2699-3111) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human LRP2 (2699-3111) is greater than 95% as determined by SEC-HPLC.