

Screening Libraries

Proteins



Product Data Sheet

KLHL3 Protein, Human (Sf9)

Cat. No.: HY-P701585

Synonyms: KLHL3; Kelch-like protein 3

Species: Human

Sf9 insect cells Source: Q9UH77 (E2-L587) Accession:

Gene ID: 26249

Molecular Weight:

			ES

Appearance	Solution.		
Formulation	Supplied as a 0.22 μm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.		
Endotoxin Level	<1 EU/µg, determined by LAL method.		
Reconsititution	Please use rapid thawing with running water to thaw the protein.		
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.		
Shipping	Shipping with dry ice.		

DESCRIPTION

Background

KLHL3 functions as a substrate-specific adapter within the BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex, playing a crucial role in regulating ion transport in the distal nephron. The BCR(KLHL3) complex orchestrates the ubiquitination and subsequent degradation of WNK1, WNK4, and WNK3, which are activators of the Na-Cl cotransporter SLC12A3/NCC in distal convoluted tubule cells of the kidney. This regulatory mechanism finely tunes NaCl reabsorption, contributing to overall electrolyte balance. Additionally, the BCR(KLHL3) complex targets CLDN8, a tight-junction protein crucial for paracellular chloride transport in the kidney, for ubiquitination and degradation. Through its role in protein ubiquitination, KLHL3 emerges as a key component in the dynamic regulation of ion transport processes, highlighting its significance in maintaining renal function.

Caution: Product has not been fully validated for medical applications. For research use only.

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