KLC2 Protein, Human (sf9, His-GST)

Cat. No.:	HY-P76469
Synonyms:	Kinesin light chain 2; KLC 2
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9H0B6 (M1-G622)
Gene ID:	64837
Molecular Weight:	Approximately 96.8 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 500 mM Nacl, 10% Glycerol, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	KLC2, a crucial component of the kinesin-1 motor complex, is integral to microtubule-associated force generation and plays a vital role in organelle transport. The light chain of KLC2 is implicated in facilitating the coupling of cargo to the heavy chain and modulating its ATPase activity. By interacting with PLEKHM2 and ARL8B, KLC2 orchestrates the recruitment of kinesin-1 to lysosomes, thereby guiding the movement of lysosomes towards microtubule plus ends. The oligomeric complex formed by KLC2 consists of two heavy chains and two light chains. This interaction, particularly through the TPR repeats, highlights KLC2's involvement in regulating the intricate machinery of organelle transport within the cell.

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