Recombinant DLRB1 protein (His tag)

Catalog Number	548313
Synonyms	Bithoraxoid-like protein; BLP; Dynein light chain 2A, cytoplasmic; Dynein-associated protein Km23; Roadblock domain-containing protein 1
Species	Human
Expression System	E. coli
Accession	Q9NP97
Molecular Weight	Predictes a molecular mass of 12.44 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	2-96
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 2-96 aa (Q9NP97) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	This recombinant protein is a stable, soluble fragment (residues 2-96) of human Dynein light chain roadblock-type 1 (DYNLRB1), designed for structural and biochemical studies. It represents a key functional domain essential for cytoplasmic dynein 1 complex assembly and cargo transport mechanisms. The full-length Dynein light chain roadblock-type 1 functions as a non-catalytic accessory component of the cytoplasmic dynein 1 complex, facilitating intracellular retrograde transport of vesicles and organelles along microtubules by linking dynein motors to specific cargos and regulatory adapter proteins. It localizes to the cytoplasm and cytoskeleton, underscoring its role in microtubule-based motility and cellular logistics.