

Recombinant human Dynein light chain 1, cytoplasmic protein

Catalog No: #AP71707

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Package Size: #AP71707-1 20ug #AP71707-2 100ug #AP71707-3 1mg

Description

Product Name	Recombinant human Dynein light chain 1, cytoplasmic protein
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-89aaSequence Info:Full Length
Other Names	8KDA dynein light chain ;DLC8Dynein light chain LC8-type 1;Protein inhibitor of neuronal nitric oxide synthase ;PIN
Accession No.	P63167
Uniprot	P63167
GeneID	8655;
Calculated MW	37.4 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	MCDRKAVIKNADMSEEMQQDSVECATQALEKYNIEKDIAAHIKKEFDKKYNPTWHCIVGRNFGSYVTHETKHFI YFYLGQVAILLFKSG
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Acts as one of several non-catalytic accessory components of the Cytoplasmic domain dynein 1 complex that are thought to be involved in linking dynein to cargos and to adapter proteins that regulate dynein function. Cytoplasmic domain dynein 1 acts as a motor for the intracellular retrograde motility of vesicles and organelles along microtubules. May play a role in changing or maintaining the spatial distribution of cytoskeletal structures.Binds and inhibits the catalytic activity of neuronal nitric oxide synthase.Promotes transactivation functions of ESR1 and plays a role in the nuclear localization of ESR1.Regulates apoptotic activities of BCL2L11 by sequestering it to microtubules. Upon apoptotic stimuli the BCL2L11-DYNLL1 complex dissociates from Cytoplasmic domain dynein and translocates to mitochondria and sequesters BCL2 thus neutralizing its antiapoptotic activity.

References

Biochemical and structural characterization of the Pak1-LC8 interaction.Lightcap C.M., Sun S., Lear J.D., Rodeck U., Polenova T., Williams J.C.J. Biol. Chem. 283:27314-27324(2008)Research Topic:Apoptosis

Note: This product is for in vitro research use only