

DYNC11 Protein, Human, Recombinant (His)

General Information

Synonyms:	Cytoplasmic dynein 1 intermediate chain 1;DYNC111;DNCIC1;DNCI1;Cytoplasmic dynein intermediate chain 1;Dynein intermediate chain 1, cytosolic (DH IC-1)
Protein Construction:	1-645 aa
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	O14576
Molecular Weight:	75.4 kDa (predicted)
AA Sequence:	MSDKSDLKAELEKQRLAQIREEKRRKEEERKKKEADMQQKKEPVQDDSDLDRKRRETEALLQSIGISPEPP LVQPLHFLTWDTCYFHLYVPTMSPSSKSVSTPSEAGSQDSDLGPLTRTLQWTDPSVLQLQSDSELGRRL HKLGVSKVTQVDLFPREVVSYSKETQTPLATHQSEDEEDEEMVESKVGQDSELENQDKKQEVKEAPPRELT EEEKQQLHSEEFLLFFDRTIRVIERALAEDSDIFFDYSGRELEEKDGDVQAGANLSFNRFYDEHWSKHRVVT MDWSLQYPELMVASYNNDAPHEPDGVALVWNMFKKTTPEYVFHCQSSVMSVCFARFHPNLVGGTY SGQIVLWDRSHRTPVQRTPLSAAATHPVYCVNVVGTQNAHNLITVSTDGKMCWSLDMSTPQESMEL VYNKSKPVAVTGMAFPTGDVNNFVVGSEEGTVYACRHGSKAGIGEVFEGHQGPVTGINCHMAVGPIDFSHL FVTSSFDWTVKLWTTKHNKPLYSFEDNADYVYDVMWSPVHPALFACVDGMGRDLWNLNNDTEVPTASVA IEGASALNRVWAQAGKEVAVGVDSEGRIVVYDVGELAVPHNDEWTRFARTLVEIRANRADSEEEGTVELSA

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Acts as one of several non-catalytic accessory components of the cytoplasmic dynein 1 complex that are thought to be involved in linking dynein to cargos and to adapter proteins that regulate dynein function. Cytoplasmic dynein 1 acts as a motor for the intracellular retrograde motility of vesicles and organelles along microtubules. The intermediate chains mediate the binding of dynein to dynactin via its 150 kDa component (p150-glued) DCTN1. May play a role in mediating the interaction of cytoplasmic dynein with membranous organelles and kinetochores.

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481