

Recombinant Human ACTR1A, His-tagged

Cat. No. ACTR1A-26591TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 97-376 of Human ACTR1A with an N terminal His tag. Predicted MWt: 33 kDa
Species	Human
Source	E.coli
ProteinLength	97-376 a.a.
Description	This gene encodes a 42.6 kD subunit of dynactin, a macromolecular complex consisting of 10-11 subunits ranging in size from 22 to 150 kD. Dynactin binds to both microtubules and cytoplasmic dynein. It is involved in a diverse array of cellular functions, including ER-to-Golgi transport, the centripetal movement of lysosomes and endosomes, spindle formation, chromosome movement, nuclear positioning, and axonogenesis. This subunit is present in 8-13 copies per dynactin molecule, and is the most abundant molecule in the dynactin complex. It is an actin-related protein, and is approximately 60% identical at the amino acid level to conventional actin.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 125 µl distilled water.
Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

Sequences of amino acids

DQLQTFSEEHPVLLTEAPLNPRKNRERAAEVFFETFNVPA LFISMQAVLSLYATGRT
 TGVVLDSGDGVTHAVPIYEGF AMPHSIMRIDIAGRDPVSRFLRLYLKKEGYDFHSSSE
 FE IVKAIKERACYLSINPQKDETELEKAQYYLPDGGSTIEIGPSRFRAPPELLFRPDLIGE
 ESEGIHEVLVFAIQKSDMDL RRTLFSNIVLSSGGSTLFGKFGDRLLSEVKKLAPKDVKI
 RISAPQERLYSTWIGGSILASLDTFKKMVWSKKEYEED GARSIDHRKTF

GENE INFORMATION

Gene Name [ACTR1A](#) [ARP1](#) actin-related protein 1 homolog A, centractin alpha (yeast) [Homo sapiens]

Official Symbol [ACTR1A](#)

Synonyms [ACTR1A](#); [ARP1](#) actin-related protein 1 homolog A, centractin alpha (yeast); [ARP1](#) (actin related protein 1, yeast) homolog A (centractin alpha); alpha-centractin; [ARP1](#);

Gene ID [10121](#)

mRNA Refseq [NM_005736](#)

Protein Refseq [NP_005727](#)

MIM [605143](#)

Uniprot ID [P61163](#)

Chromosome Location 10q24

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Pathway

Cell Cycle, Mitotic, organism-specific biosystem; Centrosome maturation, organism-specific biosystem; G2/M Transition, organism-specific biosystem; Loss of Nlp from mitotic centrosomes, organism-specific biosystem; Loss of proteins required for interphase microtubule organization??from the centrosome, organism-specific biosystem;

Function

ATP binding; nucleotide binding;

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