

Recombinant Human ACTR1A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ACTR1A-3248H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ACTR1A MS Standard C13 and N15-labeled recombinant protein (NP_005727) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	42.6 kDa
AA Sequence	MESYDVIANQPVIDNGSGVIKAGFAGDQIPKYCFPNYVGRPKHVRVMAGALEGDIFI GPKAEEHRGLLSIRYPMEHGIVKDWNDMERIWQYVYSKDQLQTFSEEHPVLLTEAP LNPRKNRERAAEVFFETFNVPALFISMQAVLSLYATGRRTTGVVLDSGDGVTHAVPIY EGFAMPHSIMRIDIAGRDVSRFLRLYLKREGYDFHSSSEFEIVKAIKERACYLSINPQK DETLETEKAQYYLPDGSTIEIGPSRFRAPPELLFRPDLIGEESEGIHEVLVFAIQKSDMD

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LRRTLFSNIVLSGGSTLFKGFGRLLSEVKKLAPKDVKIRISAPQERLYSTWIGGSILA
SLDTFKMMWVSKKEYEEDGARSIHRTFTTRTRPLEQKLISEEDLAANDILDYKDDDD
KV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [ACTR1A actin related protein 1A \[Homo sapiens \(human\) \]](#)

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; actin-RPV; centractin; centrosome-associated actin homolog; CTRN1; FLJ52695; FLJ52800; FLJ55002;

Gene ID [10121](#)

mRNA Refseq [NM_005736](#)

Protein Refseq [NP_005727](#)

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MIM	605143
UniProt ID	P61163

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