

Recombinant Human DCTN1, His-tagged

Cat. No. DCTN1-27132TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 22-291 of Human DCTN1 isoform p135 with N terminal His tag. MWt ~31 kDa;
Species	Human
Source	E.coli
ProteinLength	22-291 a.a.
Description	This gene encodes the largest subunit of dynactin, a macromolecular complex consisting of 10 subunits ranging in size from 22 to 150 kD. Dynactin binds to both microtubules and cytoplasmic dynein. Dynactin 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 interacts with dynein intermediate chain by its domains directly binding to dynein and binds to microtubules via a highly conserved glycine-rich cytoskeleton-associated protein (CAP-Gly) domain in its N-terminus. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. Mutations in this gene cause distal hereditary motor neuropathy type VIIB (HMN7B) which is also known as distal spinal and bulbar muscular atrophy (dSBMA).
Conjugation	HIS
Tissue specificity	Brain.

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Form	Lyophilised:Reconstitution with 102 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	(Amino acid sequence (Sequence determined by 5 Sequencing))ASTGVAGASSSLG PSGSASAGELSSS EPSTPAQTPLAAPIIPTPVLTS PGAVPPLSPSKEEEG LRAQVR DLEEKLET LRLKRAEDKAKLKELEKHKIQLEQVQ EWKSKMQEQQADLQRRLKEARK EAKEALEAKERYMEEM ADTADAIEMATLDKEMAEERAESLQQEVEALKERVDEL TT DLEILKAEIEEKGSDGAASSYQLKQLEEQNARLKDA LVRMRDLSSEKQEHVKLQKL MEKKNQELEVVVRQQRERLQ EELSQAESTIDE
Sequence Similarities	Belongs to the dynactin 150 kDa subunit family.Contains 1 CAP-Gly domain.

GENE INFORMATION

Gene Name	DCTN1 dynactin 1 [Homo sapiens]
Official Symbol	DCTN1
Synonyms	DCTN1; dynactin 1; dynactin 1 (p150, Glued (Drosophila) homolog); dynactin subunit 1; p150 glued homolog (Drosophila);
Gene ID	1639
mRNA Refseq	NM_001135040
Protein Refseq	NP_001128512

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MIM	601143
Uniprot ID	Q14203
Chromosome Location	2p13
Pathway	Activation of Chaperones by IRE1alpha, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Centrosome maturation, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; G2/M Transition, organism-specific biosystem;
Function	motor activity; protein binding;