

## Product datasheet for PH310658

### DCTN3 (NM\_007234) Human Mass Spec Standard

#### Product data:

|                                       |                                                                                                                                                                                                                                                                                                            |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:                         | Mass Spec Standards                                                                                                                                                                                                                                                                                        |
| Description:                          | DCTN3 MS Standard C13 and N15-labeled recombinant protein (NP_009165)                                                                                                                                                                                                                                      |
| Species:                              | Human                                                                                                                                                                                                                                                                                                      |
| Expression Host:                      | HEK293                                                                                                                                                                                                                                                                                                     |
| Expression cDNA Clone or AA Sequence: | RC210658                                                                                                                                                                                                                                                                                                   |
| Predicted MW:                         | 21.1 kDa                                                                                                                                                                                                                                                                                                   |
| Protein Sequence:                     | >RC210658 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MAGLTDLQRLQARVEELERWVYGGARGSRKVADGLVKVQVALGNISSKRERVKILYKKIEDLIKYLDP<br>EYIDRIAIPDASKLQFILAAEQFILSQVALLEQVNALVPMLDSAHIKAVPEHAARLQRLAQIHIQQDQC<br>VEITEESKALLEEYNKTTMLLSKQFVQWDELLCQLEAATQVKPAEE<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| Tag:                                  | C-Myc/DDK                                                                                                                                                                                                                                                                                                  |
| Purity:                               | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                |
| Concentration:                        | >0.05 µg/µL as determined by microplate BCA method                                                                                                                                                                                                                                                         |
| Labeling Method:                      | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine                                                                                                                                                                                                                                       |
| Buffer:                               | 25 mM Tris-HCl, 100 mM glycine, pH 7.3                                                                                                                                                                                                                                                                     |
| Storage:                              | Store at -80°C. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                         |
| Stability:                            | Stable for 3 months from receipt of products under proper storage and handling conditions.                                                                                                                                                                                                                 |
| RefSeq:                               | <a href="#">NP_009165</a>                                                                                                                                                                                                                                                                                  |
| RefSeq Size:                          | 857                                                                                                                                                                                                                                                                                                        |
| RefSeq ORF:                           | 558                                                                                                                                                                                                                                                                                                        |
| Synonyms:                             | DCTN-22; DCTN22                                                                                                                                                                                                                                                                                            |
| Locus ID:                             | 11258                                                                                                                                                                                                                                                                                                      |
| UniProt ID:                           | <a href="#">O75935</a>                                                                                                                                                                                                                                                                                     |

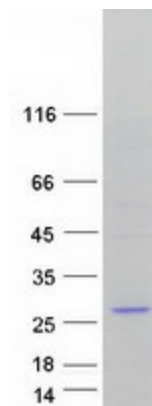


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**Cytogenetics:** 9p13.3

**Summary:** This gene encodes the smallest 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. It is involved in a diverse array of cellular functions, including ER-to-Golgi transport, the centripetal movement of lysosomes and endosomes, spindle formation, cytokinesis, chromosome movement, nuclear positioning, and axonogenesis. This subunit, like most other dynactin subunits, exists only as a part of the dynactin complex. It is primarily an alpha-helical protein with very little coiled coil, and binds directly to the largest subunit (p150) of dynactin. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

**Product images:**



Coomassie blue staining of purified DCTN3 protein (Cat# [TP310658]). The protein was produced from HEK293T cells transfected with DCTN3 cDNA clone (Cat# [RC210658]) using MegaTran 2.0 (Cat# [TT210002]).