

Product datasheet for PH305242

Dynein intermediate chain 1 (DNAI1) (NM_012144) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DNAI1 MS Standard C13 and N15-labeled recombinant protein (NP_036276)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205242
Predicted MW:	79.3 kDa
Protein Sequence:	>RC205242 protein sequence Red=Cloning site Green=Tags(s)

MIPASAKSPHKQPHKQSIIGRGRKRDEDSGTEVGEGETDEWAQSKATVRPPDQLELTDDELKEEFTRIL
TANNPHAPQNIIVRYSFKEGTYKPIGFVNQLAVHYTQVGNLIPKDSDEGRRQHYRDELVAGSQESVKVISE
TGNLEEDEEPKELETEPGSQTDVPAAGAAEKVTEELMTPKQPKERKLTNQFNFSERASQTCNNPVRDRE
CQTEPPPRTNFSATANQWEIYDAYVEELEKQEKTEKEKAKTPVAKKSGKMAMRKLTSMESQTDLLIKLS
QAAKIMERMVNQNTYDDIAQDFKYYDDAADEYRDQVGTLLPLWKFQNDKAKRLSVTALCWNPKYRDLFAV
GYGSYDFMKQSRGMLLLYSLKNPSFPEYMFSSNSGVMCLDIHVDHPYLVAVGHYDGNVAIYNLKKPHSQP
SFCSSAKSGKHSDPVWQVWQKDDMDQNLNFFSVSSDGRIVSWTLVKKRLVHIDVIKLVKVEGSTTEVPEG
LQLHQVCGGTAFDFHKEIDYMFVLVGTTEEGKIYKCSKSYSSQFLDITYDAHNSVDTVSWNPYHTKVFMSCS
SDWTVKIWDHTIKTPMFIYDLNSAVGDVAWAPYSSTVFAAVTTDGGKAHIFDLAINKYEAICNQPVAAKKN
RLTHVQFNLIHPIIIVGDDRRGHIISLKLSPNLKMPKPKKQEVQKGPVAVIAKLDKLLNLYREVKIKT

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:	NP_036276
RefSeq Size:	2593



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RefSeq ORF: 2097

Synonyms: CILD1; DIC1; ICS1; PCD

Locus ID: 27019

UniProt ID: [Q9UI46](#), [A0A140VJI0](#)

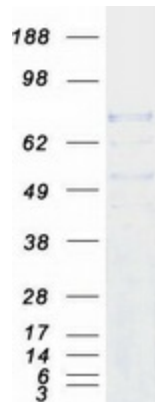
Cytogenetics: 9p13.3

Summary: This gene encodes a member of the dynein intermediate chain family. The encoded protein is part of the dynein complex in respiratory cilia. The inner- and outer-arm dyneins, which bridge between the doublet microtubules in axonemes, are the force-generating proteins responsible for the sliding movement in axonemes. The intermediate and light chains, thought to form the base of the dynein arm, help mediate attachment and may also participate in regulating dynein activity. Mutations in this gene result in abnormal ciliary ultrastructure and function associated with primary ciliary dyskinesia and Kartagener syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Protein Families: Druggable Genome

Protein Pathways: Huntington's disease

Product images:



Coomassie blue staining of purified DNAI1 protein (Cat# [TP305242]). The protein was produced from HEK293T cells transfected with DNAI1 cDNA clone (Cat# [RC205242]) using MegaTran 2.0 (Cat# [TT210002]).