

Recombinant Human DNAI1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DNAI1-1339H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DNAI1 MS Standard C13 and N15-labeled recombinant protein (NP_036276) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	79.3 kDa
AA Sequence	MIPASAKSPHKQPHKQSIISIGRGTRKRDEDSGTEVGEGTDEWAQSKATVRPPDQLE LTDAELKEEFTRILTANNPHAPQNIVRYSFKEGTYKPIGFVNQLAVHYTQVGNLIPKD SDEGRRQHYRDELVAGSQESVKVISETGNLEEDEEPKELETEPGSQTDVPAAGAAE KVTEEELMTPKQPKERKLTNQFNFSERASQTCNNPVRDRECQTEPPPRTNFSATAN

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QWEIYDAYVEELEKQEKTKEKEKAKTPVAKKSGKMAMRKLTSMESQTDDLKLSQA
 AKIMERMVNQNTYDDIAQDFKYDDAADEYRDQVGTLLPLWKQNDKAKRLSVTAL
 CWNPKYRDLFAVGYSYDFMKQSRGMLLLYSLKNPSFPEYMFSSNSGVMCLDIHV
 DHPYLVAVGHYDGNVAIYNLKKPHSQPSFCSSAKSGKHSDPQVWQVQKDDMDQ
 NLNFFSVSSDGRIVSWTLVKKRLVHIDVIKLVKVEGSTTEVPEGLQLHQVGCQTAFDF
 HKEIDYMLVLGTEEGKIYKCSKSYSSQFLDTYDAHNMSVDTVSWNPYHTKVFMSCS
 SDWTVKIWDHTIKTPMFIYDLNSAVGDVAWAPYSSTVFAAVTTDGKAHIFDLAINKYE
 AICNQPVAACKNRLTHVQFNLIHPHIIIVGDDRGHIISLKLSPNLRKMPKEKKGQEVQKG
 PAVEIAKLDKLLNLVREVKIKTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 [DNAI1 dynein axonemal intermediate chain 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [DNAI1](#)

Synonyms DNAI1; dynein, axonemal, intermediate chain 1; dynein, axonemal, intermediate polypeptide 1; dynein intermediate chain 1, axonemal; CILD1; PCD; immotile cilia syndrome 1; dynein intermediate chain DNAI1; axonemal dynein intermediate chain 1; ICS; ICS1; MGC26204;

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Gene ID	27019
mRNA Refseq	NM_012144
Protein Refseq	NP_036276
MIM	604366
UniProt ID	Q9UI46
SDS-PAGE	