

Recombinant Full Length Human DNAI1 Protein, C-Flag-tagged

Cat. No. DNAI1-2186HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DNAI1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	79.1 kDa
AA Sequence	MIPASAKSPHKQPHKQSSISIGRGTRKRDEDSGTEVGEGTDEWAQSKATVRPPDQLE LTDAELKEEFTRIL TANNPHAPQNIVRYSFKEGTYKPIGFVNQLAVHYTQVGNLIPKD SDEGRRQHYRDELVAGSQESVKVISE TGNLEEDEEPKELETEPGSQTDVPAAGAA EKVTEEELMTPKQPKERKLTNQFNFSERASQTCNNPVRDRE CQTEPPPRTNFSAT

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ANQWEIYDAYVEELEKQEKTKKEKAKTPVAKKSGKMAMRKLTSMESQTDDLKLS
 QAAKIMERMVNQNTYDDIAQDFKYYDDAADEYRDQVGTLLPLWKFKQNDKAKRLSVT
 ALCWNPKYRDLFAV GYGSYDFMKQSRGMLLLYSLKNPSFPEYMFSSNSGVMCLDI
 HVDHPYLVAVGHYDGNVAIYNLKKPHSQP SFCSSAKSGKHSDPVWQVKWQKDDM
 DQNLNFFSVSSDGRIVSWTLVKRKLVIDVIKLVKVEGSTTEVPEG LQLHQVGCQTAF
 DFHKEIDYMFLVGTEEGKIYKCSKSYSSQFLDTYDAHNMSVDTVSWNPYHTKVFMS
 CS SDWTVKIWDHTIKTPMFIYDLNSAVGDVAWAPYSSTVFAAVTTDGKAHIFDLAIN
 KYEAICNPVAAKKN RLTHVQFNLIHPHIIIVGDDRGHIISLKLSPNLRKMPKEKKGQEV
 QKGPAVEIAKLDKLLNLVREVKIKT TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Huntington's disease
Full Length	Full L.

GENE INFORMATION

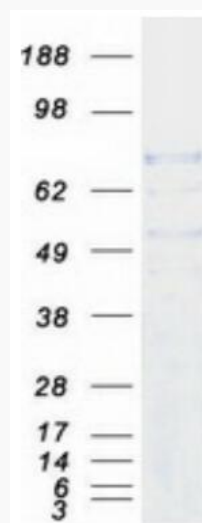
Gene Name [DNAI1 dynein axonemal intermediate chain 1 \[Homo sapiens \(human\) \]](#)

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Official Symbol	DNAI1
Synonyms	PCD; DIC1; ICS1; CILD1
Gene ID	27019
mRNA Refseq	NM_012144.4
Protein Refseq	NP_036276.1
MIM	604366
UniProt ID	Q9UI46



Coomassie blue staining of purified DNAI1 protein.