

Product datasheet for **TP305242M**

Dynein intermediate chain 1 (DNAI1) (NM_012144) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human dynein, axonemal, intermediate chain 1 (DNAI1), 100 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone >RC205242 protein sequence

or AA Sequence: **Red**=Cloning site **Green**=Tags(s)

MIPASAKSPHKQPHKQSSISIGRGRKRDEDSGTEVGEGETDEWAQSKATVRPPDQLELTD AELKEEFTRIL
TANNPHAPQNIVRYSFKEGTYKPIGFVNQLAVHYTQVGNLIPKDSDEGRRQHYRDELVAGSQESVKVISE
TGNLEEDEEPKELETEPGSQTDVPAAGAAEKVTEELMTPKQPKERKLTNQFNFSERASQTCNNPVRDRE
CQTEPPRRTNFSATANQWEIYDAYVEELEKQEKTKEKEKAKTPVAKKSGKMMAMRKLTSMESQTDLLIKLS
QAAKIMERMVNQNTYDDIAQDFKYYDDAADEYRDQVGTLLPLWKFQNDKAKRLSVTALCWNPKYRDLFAV
GYGSYDFMKQSRGMLLLYSLKNPSFPEYMFSSNSGVMCLDIHVDHPYLVAVGHYDGNVAIYNLKKPHSQP
SFCSSAKSGKHSDPVWQVKWQKDDMDQNLNFFSVSSDGRIVSWTLVKRKLVIDVIKLVKVEGSTTEVPEG
LQLHQVGCCTAFDFHKEIDYMLVGTEGKIYKCSKSYSSQFLDYDAHNMSVDTVSWNPYHTKVFMSCS
SDWTVKIWDHTIKTPMFIYDLNSAVGDVAWAPYSSTVFAAVTTDGAHIFDLAINKYEAICNQPVAAKKN
RLTHVQFNLIHPHIIIVGDDRGHIIISLKLSPNLRKMPKEKKGQEVQKGPAVEIAKLDKLLNLVREVKIKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 79.1 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

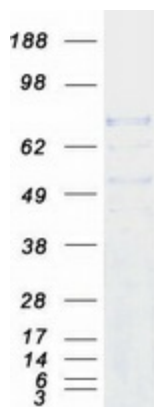
Storage: Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_036276
Locus ID:	27019
UniProt ID:	Q9UI46 , A0A140VJI0
RefSeq Size:	2593
Cytogenetics:	9p13.3
RefSeq ORF:	2097
Synonyms:	CILD1; DIC1; ICS1; PCD
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]).