



# Recombinant Human Dynein intermediate chain 1, axonemal (DNAI1)

<b>Product Code</b>	CSB-EP887060HU
<b>Abbreviation</b>	DNAI1
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q9UI46
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MIPASAKAPH KQPHKQSISI GRGTRKRDED SGTEVGEGTD EWAQSKATVR PPDQLELTDA ELKEEFTRIL TANNPHAPQN IVRYSFKEGT YKPIGFVNQL AVHYTQVGNL IPKDSDEGRR QHYRDELVAG SQESVKVISE TGNLEEDEEP KELETEPGSQ TDVPAAGAAE KVTEEELMTP KQPKERKLTN QFNFSERASQ TYNNPVRDRE CQTEPPRPTN FSATANQWEI YDAYVEELEK QEKTKEKEKA KTPVAKKSGK MAMRKLTSME SQTDDLKLS QAAKIMERMV NQNTYDDIAQ DFKYYDDAAD EYRDQVGTL PLWKVFQNDKA KRLSVTALCW NPKYRDLFAV GYGSYDFMKQ SRGMLLLYSL KNPSFPEYMF SSNSGVMCLD IHVDHPYLVA VGHYDGNVAI YNLKKPHSQP SFCSSAKSGK HSDPVWQVKW QKDDMDQNLN FFSVSSDGRI VSWTLVKRKL VHIDVIKLV EGSTTEVPEG LQLHPVGCCT AFDHFKEIDY MFLVGTEEGK IYKCSKSYSS QFLDTYDAHN MSVDTVSWNP YHTKVFMSCS SDWTVKIWDH TIKTPMFIYD LNSAVGDVAW APYSSTVFAA VTTDGKAHIF DLAINKYEAI CNQPVAACKN RLTHVQFNLI HPIIIVGDDR GHIISLKLSP NLRKMPKEKK GQEVQKGPV EIAKLDKLLN LVREVKIKT
<b>Source</b>	E.coli
<b>Target Names</b>	DNAI1
<b>Protein Names</b>	Recommended name: Dynein intermediate chain 1, axonemal Alternative name(s): Axonemal dynein intermediate chain 1
<b>Expression Region</b>	1-699
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	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. This gene encodes an intermediate chain dynein, belonging to the large family of motor proteins. Mutations in this gene result in abnormal ciliary ultrastructure and function associated with primary ciliary dyskinesia (PCD) and Kartagener syndrome.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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