Intraflagellar Transport Protein 122 Homolog (IFT122) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Intraflagellar transport protein 122 homolog (IFT122), Recombinant Protein
Full Product Name	Recombinant Human Intraflagellar transport protein 122 homolog (IFT122) , partial
Product Gene Name	IFT122 recombinant protein
Product Synonym Gene Name	IFT122
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	113,230 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	218330
3D Structure	ModBase 3D Structure for Q9HBG6
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IFT122 recombinant protein	This gene encodes a member of the WD repeat protein family. WD repeats are minimally conserved regions of approximately 40 amino acids typically bracketed by gly-his and trp-asp (GH-WD), which may facilitate formation of heterotrimeric or multiprotein complexes. Members of this family are involved in a variety of cellular processes, including cell cycle progression, signal transduction, apoptosis, and gene regulation. This cytoplasmic protein contains seven WD repeats and an AF-2 domain which function by recruiting coregulatory molecules and in transcriptional activation. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Other Notes	Small volumes of IFT122 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IFT122 purchase	MBS1338250 is a recombinant protein targeting IFT122. Also known as Recombinant Human Intraflagellar transport protein 122 homolog (IFT122) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IFT122. It may not necessarily be applicable to this product.

NCBI GI #	526253054
NCBI GeneID	55764
NCBI Accession #	NP_001267470.1
UniProt Primary Accession #	Q9HBG6

UniProt Secondary Accession #	Q53G36; Q8TC06; Q9BTB9; B3KW53; B4DEY9; B4DPW7; E7EQF4; E9PDG2; E9PDX2; G3XAB1; H7C3C0
UniProt Related Accession #	Q9HBG6
GenBank Nucleotide #	NM_001280541.1
NCBI Official Full Name	intraflagellar transport protein 122 homolog isoform 5
NCBI Official Synonym Full Names	intraflagellar transport 122
NCBI Official Symbol	IFT122
NCBI Official Synonym Symbols	CED; SPG; CED1; WDR10; WDR10p; WDR140
UniProt Protein Name	Intraflagellar transport protein 122 homolog
UniProt Synonym Protein Names	WD repeat-containing protein 10; WD repeat-containing protein 140
Protein Family	Intraflagellar transport protein
UniProt Gene Name	IFT122
UniProt Synonym Gene Names	SPG; WDR10; WDR140
NCBI Protein Information	intraflagellar transport protein 122 homolog
NCBI Summary for IFT122	This gene encodes a member of the WD repeat protein family. WD repeats are minimally conserved regions of approximately 40 amino acids typically bracketed by gly-his and trp-asp (GH-WD), which may facilitate formation of heterotrimeric or multiprotein complexes. Members of this family are involved in a variety of cellular processes, including cell cycle progression, signal transduction, apoptosis, and gene regulation. This cytoplasmic protein contains seven WD repeats and an AF-2 domain which function by recruiting coregulatory molecules and in transcriptional activation. Mutations in this gene cause cranioectodermal dysplasia-1. A related pseudogene is located on chromosome 3. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2013]
UniProt Comments for IFT122	Required for cilia formation during neuronal patterning. Acts as a negative regulator of Shh signaling. Required to recruit TULP3 to primary cilia ().
Research Articles on IFT122	**1.** All the nine probands with syndromic craniosynostosis were found to carry the possibly causative variants, among which three variants including two missense mutations in IFT122 gene, in SMC1A gene and a frameshift mutation in TWIST1 gene have never been reported in patients before.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/intraflagellar-transport-protein-122-homolog-ift122/1338250