HPS3 siRNA – Hermansky-Pudlak Syndrome 3 Protein Isoform 2 (Human)

PRODUCT OVERVIEW

Product Name	HPS3, siRNA
Full Product Name	HPS3 siRNA (Human)
Product Gene Name	HPS3 sirna
Product Synonym Names	Hermansky-Pudlak syndrome 3 protein
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	HPS3 siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	100,629 Da
OMIM	606118
3D Structure	ModBase 3D Structure for Q969F9
Negative Control	siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection.
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Directions for Use	We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well).
Components	We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of human HPS3 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo.
Applications Tested/Suitable for HPS3 sirna	RNA Interference (RNAi)
Related Product Information for HPS3 sirna	MBS8203756 is an siRNA targeting HPS3. Also known as HPS3 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit HPS3 expression using RNA interference
Other Notes	Small volumes of HPS3 sirna 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HPS3. It may not necessarily be applicable to this product.

NCBI GI #	815891231
NCBI GeneID	84343
NCBI Accession #	NP_001295187.1
UniProt Primary Accession #	Q969F9
UniProt Secondary Accession #	Q8WTV6; Q96AP1; Q96MR3; Q9H608; A8K6G6
UniProt Related Accession #	Q969F9
GenBank Nucleotide #	NM_001308258.1
NCBI Official Full Name	Hermansky-Pudlak syndrome 3 protein isoform 2
NCBI Official Synonym Full Names	Hermansky-Pudlak syndrome 3
NCBI Official Symbol	HPS3
NCBI Official Synonym Symbols	SUTAL
UniProt Protein Name	Hermansky-Pudlak syndrome 3 protein
Protein Family	Hermansky-Pudlak syndrome 3 protein
UniProt Gene Name	HPS3
UniProt Entry Name	HPS3_HUMAN
NCBI Protein Information	Hermansky-Pudlak syndrome 3 protein
NCBI Summary for HPS3	This gene encodes a protein containing a potential clathrin-binding motif, consensus dileucine signals, and tyrosine-based sorting signals for targeting to vesicles of lysosomal lineage. The encoded protein may play a role in organelle biogenesis associated with melanosomes, platelet dense granules, and lysosomes. Mutations in this gene are associated with Hermansky-Pudlak syndrome type 3. [provided by RefSeq, Apr 2015]
UniProt Comments for HPS3	HPS3: Involved in early stages of melanosome biogenesis and maturation. Defects in HPS3 are the cause of Hermansky-Pudlak syndrome type 3 (HPS3). Hermansky-Pudlak syndrome (HPS) is a genetically heterogeneous, rare, autosomal recessive disorder characterized by oculocutaneous albinism, bleeding due to platelet storage pool deficiency, and lysosomal storage defects. This syndrome results from defects of diverse cytoplasmic organelles including melanosomes, platelet dense granules and lysosomes. Ceroid storage in the lungs is associated with pulmonary fibrosis, a common cause of premature death in individuals with HPS. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Vesicle Chromosomal Location of Human Ortholog: 3q24 Biological Process: pigmentation; organelle organization and biogenesis Disease: Hermansky-pudlak Syndrome 3
Research Articles on HPS3	**1.** Observational study of genotype prevalence. (HuGE Navigator)
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/human-sirna/hps3/8203756