RPF1 siRNA – Ribosome Production Factor 1 (Human)

PRODUCT OVERVIEW

Product Name	RPF1, siRNA
Full Product Name	RPF1 siRNA (Human)
Product Gene Name	RPF1 sirna
Product Synonym Names	BXDC5; Ribosome production factor 1; Brix domain-containing protein 5; Ribosome biogenesis protein RPF1
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	RPF1 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	40,111 Da
3D Structure	ModBase 3D Structure for Q9H9Y2
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 RPF1 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 RPF1 sirna	RNA Interference (RNAi)
Related Product Information for RPF1 sirna	MBS8215150 is an siRNA targeting RPF1. Also known as RPF1 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit RPF1 expression using RNA interference
Other Notes	Small volumes of RPF1 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 RPF1. It may not necessarily be applicable to this product.

NCBI GI #	145275210

NCBI GeneID	80135
NCBI Accession #	NP_079341.2
UniProt Primary Accession #	Q9H9Y2
UniProt Secondary Accession #	Q5VSK7; Q6AHX1; Q8WXZ8
UniProt Related Accession #	Q9H9Y2
GenBank Nucleotide #	NM_025065.6
NCBI Official Full Name	ribosome production factor 1
NCBI Official Synonym Full Names	ribosome production factor 1 homolog
NCBI Official Symbol	RPF1
NCBI Official Synonym Symbols	BXDC5
UniProt Protein Name	Ribosome production factor 1
UniProt Synonym Protein Names	Brix domain-containing protein 5; Ribosome biogenesis protein RPF1
Protein Family	Resuscitation-promoting factor
UniProt Gene Name	RPF1
UniProt Synonym Gene Names	BXDC5
UniProt Entry Name	RPF1_HUMAN
NCBI Protein Information	ribosome production factor 1
UniProt Comments for RPF1	BXDC5: May be required for ribosome biogenesis. Protein type: Nucleolus Chromosomal Location of Human Ortholog: 1p22.3 Cellular Component: nucleolus Molecular Function: rRNA primary transcript binding; RNA binding Biological Process: maturation of LSU-rRNA; maturation of 5.8S rRNA; ribosomal large subunit assembly and maintenance
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.
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