EBI3 siRNA – Interleukin-27 Subunit Beta (Human)

PRODUCT OVERVIEW

Product Name	EBI3, siRNA
Full Product Name	EBI3 siRNA (Human)
Product Gene Name	EBI3 sirna
Product Synonym Names	IL27B; Interleukin-27 subunit beta; IL-27 subunit beta; IL-27B; Epstein-Barr virus-induced gene 3 protein; EBV-induced gene 3 protein
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	EBI3 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	25,396 Da
OMIM	605816
3D Structure	ModBase 3D Structure for Q14213
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 EBI3 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 EBI3 sirna	RNA Interference (RNAi)
Related Product Information for EBI3 sirna	MBS8223444 is an siRNA targeting EBI3. Also known as EBI3 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit EBI3 expression using RNA interference
Other Notes	Small volumes of EBI3 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 EBI3. It may not necessarily be applicable to this product.

NCBI GI #	14577917
NCBI GeneID	10148
NCBI Accession #	NP_005746.2
UniProt Primary Accession #	Q14213
UniProt Secondary Accession #	O75269; A0N0N2
UniProt Related Accession #	Q14213
GenBank Nucleotide #	NM_005755.2
NCBI Official Full Name	interleukin-27 subunit beta
NCBI Official Synonym Full Names	Epstein-Barr virus induced 3
NCBI Official Symbol	EBI3
NCBI Official Synonym Symbols	IL27B; IL-27B
UniProt Protein Name	Interleukin-27 subunit beta
UniProt Synonym Protein Names	Epstein-Barr virus-induced gene 3 protein; EBV-induced gene 3 protein
Protein Family	Interleukin
UniProt Gene Name	EBI3
UniProt Synonym Gene Names	IL27B; IL-27 subunit beta; IL-27B; EBV-induced gene 3 protein
UniProt Entry Name	IL27B_HUMAN
NCBI Protein Information	interleukin-27 subunit beta
NCBI Summary for EBI3	This gene was identified by its induced expression in B lymphocytes in response Epstein-Barr virus infection. It encodes a secreted glycoprotein belonging to the hematopoietin receptor family, and heterodimerizes with a 28 kDa protein to form interleukin 27 (IL-27). IL-27 regulates T cell and inflammatory responses, in part by activating the Jak/STAT pathway of CD4+ T cells. [provided by RefSeq, Sep 2008]
UniProt Comments for EBI3	IL27-beta: Cytokine with pro- and anti-inflammatory properties, that can regulate T-helper cell development, suppress T-cell proliferation, stimulate cytotoxic T-cell activity, induce isotype switching in B-cells, and that has diverse effects on innate immune cells. Among its target cells are CD4 T-helper cells which can differentiate in type 1 effector cells (TH1), type 2 effector cells (TH2) and IL17 producing helper T-cells (TH17). It drives rapid clonal expansion of naive but not memory CD4 T-cells. It also strongly synergizes with IL-12 to trigger interferon-gamma/IFN-gamma production of naive CD4 T-cells, binds to the cytokine receptor WSX-1/TCCR. Another important role of IL27 is its antitumor activity as well as its antiangiogenic activity with activation of production of antiangiogenic chemokines. Belongs to the type I cytokine receptor family. Type 3 subfamily. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 19p13.3 Cellular Component: extracellular space; plasma membrane Molecular Function: hematopoietin/interferon-class (D200-domain) cytokine receptor activity; protein binding; interleukin-27 receptor binding; cytokine activity Biological Process: T-helper 1 type immune response; cytokine and chemokine mediated signaling pathway; positive regulation of alpha-beta T cell proliferation; humoral immune response; positive regulation of interferon-gamma biosynthetic process
Research Articles on EBI3	**1.** The levels of EBI3 and IL-12p35 mRNAs in peripheral blood mononuclear cells in moderate or hyper-responders were significantly higher than those in non- or hypo-responders.

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