PTGDR siRNA – Prostaglandin D2 Receptor (Mouse)

PRODUCT OVERVIEW

Product Name	PTGDR, siRNA
Full Product Name	PTGDR siRNA (Mouse)
Product Gene Name	PTGDR sirna
Product Synonym Names	Prostaglandin D2 receptor; PGD receptor; PGD2 receptor; Prostanoid DP receptor
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	PTGDR siRNA (Mouse) 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	40,005 Da
3D Structure	ModBase 3D Structure for P70263
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 mouse PTGDR 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 PTGDR sirna	RNA Interference (RNAi)
Related Product Information for PTGDR sirna	MBS8228007 is an siRNA targeting PTGDR. Also known as PTGDR siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit PTGDR expression using RNA interference
Other Notes	Small volumes of PTGDR 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 PTGDR. It may not necessarily be applicable to this product.

NCBI GI #	225543126

NCBI GeneID	19214
NCBI Accession #	NP_032988.3
UniProt Primary Accession #	P70263
UniProt Secondary Accession #	Q8CCM3; A2RSY4
UniProt Related Accession #	P70263
GenBank Nucleotide #	NM_008962.4
NCBI Official Full Name	prostaglandin D2 receptor
NCBI Official Synonym Full Names	prostaglandin D receptor
NCBI Official Symbol	Ptgdr
NCBI Official Synonym Symbols	DP; PGD
UniProt Protein Name	Prostaglandin D2 receptor
UniProt Synonym Protein Names	Prostanoid DP receptor
Protein Family	Prostaglandin D2 receptor
UniProt Gene Name	Ptgdr
UniProt Synonym Gene Names	PGD receptor; PGD2 receptor
UniProt Entry Name	PD2R_MOUSE
NCBI Protein Information	prostaglandin D2 receptor
UniProt Comments for PTGDR	PTGDR: Receptor for prostaglandin D2 (PGD2). The activity of this receptor is mainly mediated by G(s) proteins that stimulate adenylate cyclase, resulting in an elevation of intracellular cAMP. A mobilization of calcium is also observed, but without formation of inositol 1,4,5-trisphosphate. Genetic variations in PTGDR are associated with susceptibility to asthma-related traits type 1 (ASRT1). Asthma-related traits include clinical symptoms of asthma, such as coughing, wheezing and dyspnea. Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, multi-pass; GPCR, family 1; Membrane protein, integral; Receptor, GPCR Cellular Component: membrane; integral to membrane; plasma membrane Molecular Function: G-protein coupled receptor activity; signal transducer activity; prostaglandin J receptor activity; prostaglandin D receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; male sex determination; inflammatory response; sleep; signal transduction; adenosine metabolic process
Research Articles on PTGDR	**1.** A role for PGD2 signals acting through PTGDR in suppression of intestinal tumors.
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