BAI1 siRNA – Brain-Specific Angiogenesis Inhibitor 1 (Mouse)

PRODUCT OVERVIEW

Product Name	BAI1, siRNA
Full Product Name	BAI1 siRNA (Mouse)
Product Gene Name	BAI1 sirna
Product Synonym Names	Brain-specific angiogenesis inhibitor 1
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	BAI1 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	– Da
3D Structure	ModBase 3D Structure for Q3UHD1
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 BAI1 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 BAI1 sirna	RNA Interference (RNAi)
Related Product Information for BAI1 sirna	MBS8202113 is an siRNA targeting BAI1. Also known as BAI1 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit BAI1 expression using RNA interference
Other Notes	Small volumes of BAI1 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 BAI1. It may not necessarily be applicable to this product.

NCBI GI #	92110033

NCBI GeneID	107831
NCBI Accession #	NP_778156.2
UniProt Primary Accession #	Q3UHD1
UniProt Secondary Accession #	Q3UH36; Q8CGM0
UniProt Related Accession #	Q3UHD1
GenBank Nucleotide #	NM_174991.3
NCBI Official Full Name	brain-specific angiogenesis inhibitor 1
NCBI Official Synonym Full Names	adhesion G protein-coupled receptor B1
NCBI Official Symbol	Adgrb1
NCBI Official Synonym Symbols	Bai1; R75078; mKIAA4089; B830018M07Rik
UniProt Protein Name	Brain-specific angiogenesis inhibitor 1
Protein Family	Brain-specific angiogenesis inhibitor
UniProt Gene Name	Bai1
UniProt Entry Name	BAI1_MOUSE
NCBI Protein Information	brain-specific angiogenesis inhibitor 1
UniProt Comments for BAI1	BAI1: Phosphatidylserine receptor that enhances the engulfment of apoptotic cells. Likely to be a potent inhibitor of angiogenesis in brain and may play a significant role as a mediator of the p53 signal in suppression of glioblastoma. May function in cell adhesion and signal transduction in the brain. Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily. Protein type: GPCR, family 2; Receptor, GPCR; Membrane protein, integral; Membrane protein, multi-pass Cellular Component: membrane; plasma membrane; integral to membrane Molecular Function: G-protein coupled receptor activity; protein binding; transmembrane receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; negative regulation of angiogenesis; cell surface receptor linked signal transduction
Research Articles on BAI1	**1.** BAI1(-) mice have deficits in hippocampus-dependent spatial learning and memory, enhanced long-term potentiation, impaired long-term depression, and postsynaptic density thinning. BAI1 stops PSD-95 polyubiquitination/degradation via interaction with MDM2.
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