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Product datasheet for SR319669

p21 (CDKN1A) Human siRNA Oligo Duplex (Locus ID 1026)

Product data:

Product Type:	siRNA Oligo Duplexes
Purity:	HPLC purified
Quality Control:	Tested by ESI-MS
Sequences:	Available with shipment
Stability:	One year from date of shipment when stored at -20°C.
# of transfections:	Approximately 330 transfections/2nmol in 24-well plate under optimized conditions (final conc. 10 nM).
Note:	Single siRNA duplex (10nmol) can be ordered.
RefSeq:	<u>NM 000389, NM 001220777, NM 001220778, NM 001291549, NM 078467, NR 037150, NR 037150, NR 037151, NR 037152</u>
UniProt ID:	<u>P38936</u>
Synonyms:	CAP20; CDKN1; CIP1; MDA-6; P21; p21CIP1; SDI1; WAF1
Components:	CDKN1A (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 1026) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 ml
Summary:	This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-cyclin-dependent kinase2 or -cyclin-dependent kinase4 complexes, and thus functions as a regulator of cell cycle progression at G1. The expression of this gene is tightly controlled by the tumor suppressor protein p53, through which this protein mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. This protein can interact with proliferating cell nuclear antigen, a DNA polymerase accessory factor, and plays a regulatory role in S phase DNA replication and DNA damage repair. This protein was reported to be specifically cleaved by CASP3-like caspases, which thus leads to a dramatic activation of cyclin-dependent kinase2, and may be instrumental in the execution of apoptosis following caspase activation. Mice that lack this gene have the ability to regenerate damaged or missing tissue. Multiple alternatively spliced variants have been found for this gene. [provided by RefSeq, Sep 2015]



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Poricientp21 (CDKN1A) Human siRNA Oligo Duplex (Locus ID 1026) - SR319669Performance
Guaranteed:OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will
provide at least 70% or more knockdown of the target mRNA when used at 10 nM
concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control
duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the HPRT
positive control (cat# SR30003) provides 90% knockdown efficiency.For non-conforming siRNA, requests for replacement product must be made within ninety
(90) days from the date of delivery of the siRNA kit. To arrange for a free replacement with
newly designed duplexes, please contact Technical Services at techsupport@origene.com.
Please provide your data indicating the transfection efficiency and measurement of gene

required).

expression knockdown compared to the scrambled siRNA control (quantitative RT-PCR data

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