Parkin siRNA Set I
siRNA duplexes targeted against three exon regions

Catalog # P215-911
Lot # Z2061-81

Specificity
Parkin siRNAs are designed to specifically knock-down human Parkin expression.

Product Description
Parkin siRNA is a pool of three individual synthetic siRNA duplexes designed to knock-down human Parkin mRNA expression. Each siRNA is 19-25 bases in length. The gene accession number is BC022014.

Gene Aliases
PARK2, AR-JP, PDJ, PRKN, LPRS2

Storage and Stability
The lyophilized powder is stable for at least 4 weeks at room temperature. It is recommended that the lyophilized and resuspended siRNAs are stored at or below -20°C. After resuspension, siRNA stock solutions ≥2 μM can undergo up to 50 freeze-thaw cycles without significant degradation. For long-term storage, it is recommended that the siRNA is stored at -70°C. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Scientific Background
Parkin or parkinson protein 2 is a RING domain-containing E3 ubiquitin protein ligase involved in proteasome-dependent degradation of proteins. Mutations in Parkin can lead to Parkinson's disease. Parkin is important for mitochondrial quality control by lysosome-dependent degradation of damaged mitochondria through autophagy, or mitophagy (1). Parkin plays an important role in directly supporting mitochondrial function and protecting mitochondrial genomic integrity from oxidative stress (2). Parkin also has essential role in regulating normal respiratory function in mitochondria and in the protection of cells from oxidative stress.

References

Formulation
The siRNAs are supplied as a lyophilized powder and shipped at room temperature.

Reconstitution Protocol
Briefly centrifuge the tubes (maximum RCF 4,000g) to collect lyophilized siRNA at the bottom of the tube. Resuspend the siRNA in 50 μl of DEPC-treated water (supplied by researcher), which results in a 1x stock solution (10 μM). Gently pipet the solution 3-5 times to mix and avoid the introduction of bubbles. Optional: aliquot 1x stock solutions for storage.

Related Products

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parkin Protein</td>
<td>P215-30G</td>
</tr>
<tr>
<td>Anti-phospho-Parkin (Ser101)</td>
<td>P215-65R</td>
</tr>
<tr>
<td>Anti-phospho-Parkin (Ser378)</td>
<td>P215-65BR</td>
</tr>
</tbody>
</table>

Parkin siRNA Set I
siRNA duplexes targeted against three exon regions

Catalog Number P215-911
Specific Lot Number Z2061-81
Packaging Specifications
2.5 nmol/tube for 3 x 5 nmol
Lyophilized powder
1yr at -70°C from date of shipment

The lyophilized powder is stable for at least 4 weeks at room temperature. It is recommended that the lyophilized and resuspended siRNAs are stored at or below -20°C. After resuspension, siRNA stock solutions ≥2 μM can undergo up to 50 freeze-thaw cycles without significant degradation. For long-term storage, it is recommended that the siRNA is stored at -70°C. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

To place your order, please contact us by phone 1-(604)-232-4600, fax 1-604-232-4601 or by email: orders@signalchem.com
www.signalchem.com

FOR IN VITRO RESEARCH PURPOSES ONLY. NOT INTENDED FOR USE IN HUMAN OR ANIMALS.