### Redmond Red

**Category**  
Fluorescent Dyes

<table>
<thead>
<tr>
<th>Modification Code</th>
<th>RedR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Catalog Number</td>
<td>26-6991</td>
</tr>
<tr>
<td>5 Prime</td>
<td>Y</td>
</tr>
<tr>
<td>3 Prime</td>
<td>Y</td>
</tr>
<tr>
<td>Internal</td>
<td>Y</td>
</tr>
<tr>
<td>Molecular Weight (mw)</td>
<td>445.34</td>
</tr>
</tbody>
</table>

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The Epoch dyes add to the portfolio of the increasing availability of numerous fluorescent dyes covering the visible spectra that suitable for incorporation in oligonucleotides. Redmond Red is an alternate for Cy3.5 fluorophore.

Single-dye labeled oligonucleotides are routinely used for PCR for fragment analysis, DNA sequencing and FISH analysis. Dual-dye labeled oligos are particularly useful in fluorescence resonance energy transfer (FRET) experiments for determination of intra- and intermolecular distances at very high resolution (1-10 nm). In addition, dual-labeled oligos containing fluorescent dye/dark quencher pairs are now routinely used in quantitative and qualitative real-time PCR experiments and assays (5'-nuclease assay, Molecular Beacon, Scorpions, etc). Details of how such dual-labeled probes work for detection of minute amounts of target are found in the Quenchers modifications category.

Fluorophores can be used to label DNA oligos for use as hybridization probes in a variety of in vivo and in vitro research or diagnostic applications, as well as for structure-function studies of DNA, RNA, and protein-oligonucleotide complexes. Fluorescent modifications can also be combined with non-fluorescent modifications in a wide variety of combinations for use in highly specializing applications or research projects.

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Our agreement with Glen Research a reseller for Epoch Biosciences, Inc. allows us to sell you Epoch Products incorporated into oligonucleotides which will be used by end users for research purposes. Epoch Products include Yakima Yellow, Eclipse™ Dark Quencher, Super G (PPG), Benzaldehyde Phosphoramidite, Redmond Red and Gig Harbor Green. The end user agrees to the “Research Use Only” provision by placing and order for Epoch Products incorporated into oligonucleotides.

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