

Product Datasheet

HighFidelity Biotin16 PCR Labeling Kit (orb653771)

Catalog Number	orb653771
Category	Assays and Kits
Description	<p>HighFidelity Biotin16 PCR Labeling Kit is designed to produce randomly Biotin16-modified DNA probes by PCR. Such probes are ideally suited for in situ hybridization and Northern Blot experiments. PCR-based labeling is superior to random-primed labeling by Klenow fragment if template amounts are limited or amplification of a specific DNA fragments is required. Biotin-16-dUTP is efficiently incorporated into DNA as substitute for its natural counterpart dTTP using an optimized reaction buffer and a High Fidelity Polymerase. 50% Biotin-16-dUTP substitution typically results in an optimal balance between reaction and labeling efficiency. Individual optimization of Biotin-16-dUTP/dTTP ratio however, can easily be achieved with the single nucleotide format. The resulting Biotin16-modified DNA probe can subsequently be detected by HRP-or AP-modified Streptavidin. The kit contains sufficient reagents for 175 labeling reactions of 20 µl each (50% Biotin16-dUTP substitution, 100 µM dATP/dGTP/dCTP, 50 µM dTTP, 50 µM Biotin16-dUTP).</p>
SMILES	<chem>C1[C@H]2[C@@H]([C@@H](S1)CCCC(=O)NCCCCC(=O)NCCCC(=O)NC/C=C/c1c(=O)[nH]c(=O)n([C@H]3C[C@@H]([C@H](O3)COP(=O)(OP(=O)(OP(=O)(O)O)O)O)c1)NC(=O)N2</chem>
Storage	store at -20 °C
Hazard Information	Non-Toxic
Note	For research use only
Expiration Date	12 months from date of receipt.

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