

BIOSAN,
28, Ingenernaya Str.
630090, Novosibirsk, Russia
tel.: +7(383) 363-51-91, 363-22-40
fax: +7(383) 363-51-91
mail@biosan-nsk.ru
www.biosan-nsk.ru



DATA QUALITY SHEET

Biotin-15-dCTP

(5-((7-N-(6-N-(biotinyl)aminocaproyl)-amino-4-oxa-hept-1-ynyl)-2'-deoxycytidyl-5'-triphosphate

FOR RESEARCH USE ONLY

Biotin-15-dCTP (5-((7-N-(6-N-(biotinyl)aminocaproyl)-amino-4-oxa-hept-1-ynyl)-2'-deoxycytidyl-5'-triphosphate is used for non-radioactive DNA labeling. Biotin-15-dCTP can be enzymatically incorporated into DNA via nick-translation, random priming, 3'-end terminal labeling or PCR.

Description

The number "15" is the number of carbon atoms in the backbone of linker between dCTP and biotin. The longer the linker is, the more effective interaction of biotin with avidin occurs. From the other side, the shorter the linker is, the more effective incorporation of dCTP into DNA can be provided.

The length of linker "15" is optimal for the majority of applications.

Delivery form

Sterile water solution of ammonium salt nucleotide. Colorless transparent liquid.

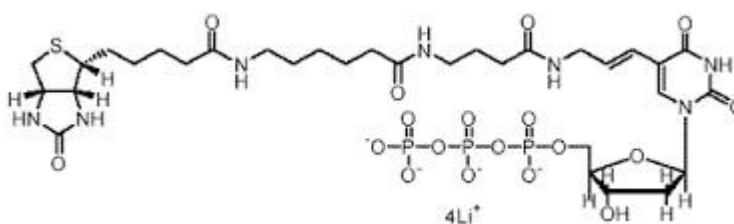
Concentration

0.001 M

Quality control

– Purity more than 96% (ion-exchange chromatography, TLC, NMR, UV-spectroscopy)

Structural formula (free acid)



Formula (Anhydrous Free Acid)

$C_{30}H_{45}N_7O_{17}P_3S$

Molecular weight

901,51 g/mol

Storage

-20°C. Avoid multiple freezing-thawing.

Transportation

Blue ice.