7-N_3Ac-AParg-7-C-dGTP

Azide-containing analogue of dGTP

The azide-containing 7-N^3Ac-AParg-7-C-dGTP is an analogue of dGTP and a suitable molecular tool for the copper(I)-catalysed Huisgen azide-alkyne [3+2] cycloaddition (CuAAC) or copper(I)-free strain-promoted Alkyne-Azide Click Chemistry (SPAAC) with strained alkynes, respectively. Both reactions have attracted particular interest for the introduction of reporter groups and for the labelling of various biomolecules like dGTP-binding proteins by the so-called click-chemistry technique. Azide-functionalised 7-deaza purine nucleotides can replace their natural counterpart dGTP in polymerase reactions, resulting in functionalized DNA that can subsequently be further reacted and modified using click chemistry methods.

BLG-A392-0125 (5 x 0.25 µmol pack size) is not sold in the U.S. or Canada. Please contact us for available options.

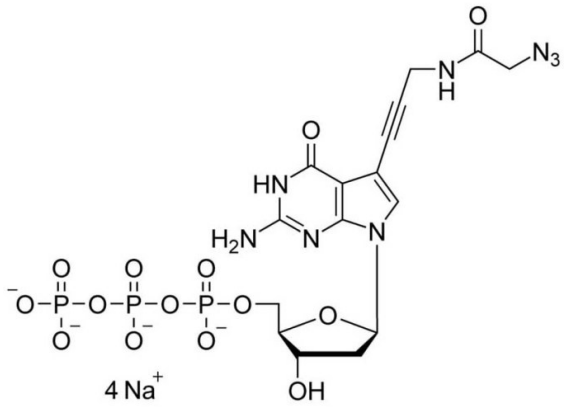
Ordering Information

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BLG-A392-0125	5x0.25µmol

Manuals, SDS & CofA

View Online »


O
N3
N
H
O
HN
H2N
N
N
O
O
O
O
O
O
O
O
O
O
4 Na+
OH

Handling & Storage

Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	7-(3-(2-Azidoacetyl)aminopropargyl)-7-deaza-2′-deoxyguanosine-5′-O-triphosphate . sodium salt
Couple Type	Modified nucleotides
Formula	$C_{16}H_{21}N_8O_{14}P_3$ (free acid)
MW	642.3 (free acid)
Purity	> 95% HPLC
Quantity	0.25µmol = ~161µg

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