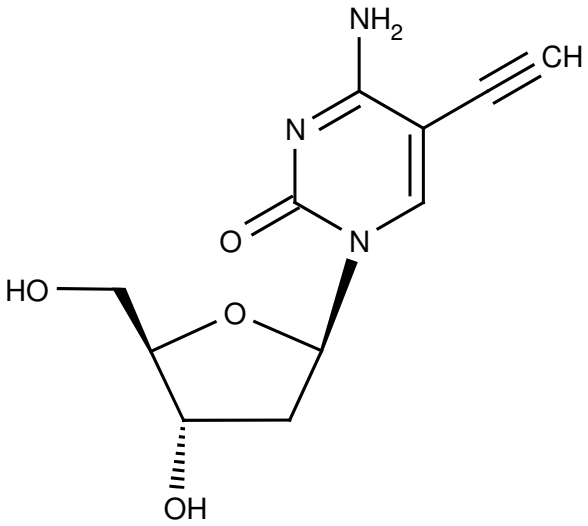
Data sheet

IFTA AG
Certified QMS according to
DIN EN ISO 9001
Reg. No. IC 03214 034

Jena Bioscience

5-Ethynyl-dC (5-EdC)
5-Ethynyl-2′-deoxycytidine

Cat. No.	Amount
CLK-N003-10	10 mg



Molecular Formula: $C_{11}H_{12}N_2O_5$

Molecular Weight: 252,22 g/mol

Spectroscopic properties: λ_{max} 291 nm; ϵ 8500 cm^{-1} M^{-1} (in Tris-HCl pH 7.5)

Storage conditions: Short term exposure (up to 1 week cumulative) to ambient temperature possible. Long term storage at < -20°C. If stored as recommended, Jena Bioscience guarantees optimal performance of this product for 12 months after date of delivery.

Purity: > 99 % (HPLC)

Appearance: off-white solid

Product Features and Benefits: 5-Ethynyl-2′-deoxy-cytidine was developed to identify cell proliferation. After incorporation into newly synthesized DNA it can be detected after conjugation to a fluorescent azide via means of click chemistry. It detects DNA at a similar level as 5-Ethynyl-2′-deoxy-uridine (EdU) [1] .

For research use only!

Selected References:

1. Qu *et al.* (2011) 5-Ethynyl-2′-deoxycytidine as a new agent for DNA labeling: detection of proliferating cells. *Anal Biochem* **417(1)**:112.

Guan *et al.* (2011) Intracellular detection of cytosine incorporation in genomic DNA by using 5-ethynyl-2′-deoxycytidine. *Chembiochem* **2(14)**:2184.