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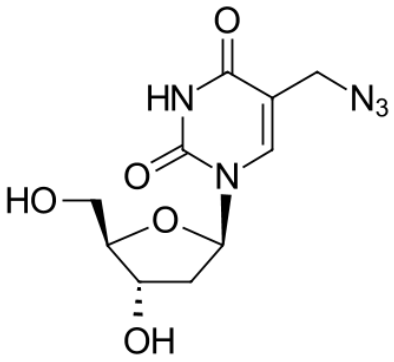
AmdU (5-Azidomethyl-2'-deoxyuridine)

http://www.lumiprobe.com/p/amdu-azidomethyl-deoxyuridine

Azidomethyl-dU (AmdU) is a nucleoside that contains an azide group. The structure of the nucleoside is similar to thymidine, and it is incorporated into nascent DNA by cellular polymerases, similar to EdU.

In contrast to EdU which needs to be further modified with azides in the presence of the copper catalyst, AmdU can also react in the absence of copper catalyst using SPAAC click chemistry with strained cycloalkynes, such as cyclooctynes. This enables the detection of nascent DNA in benign, copper-free conditions.



Structure of AmdU (azidomethyldeoxyuridine)

General properties

Appearance:	white / off white solid
Molecular weight:	283.24
CAS number:	59090-48-1
Molecular formula:	$C_{10}H_{13}N_5O_5$
IUPAC name:	5-Azidomethyl-2'-deoxyuridine
Solubility:	in water, alcohols, DMSO, DMF
Quality control:	NMR ^{1}H, HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.
Legal statement:	Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes.