

OPP (O-Propargyl-puromycin)

<http://hk.lumiprobe.com/p/o-propargyl-puromycin>

O-Propargyl-puromycin (OPP, OP-puro) is a synthetic alkyne analog of puromycin designed for the non-radioactive labeling, visualization, and affinity purification of newly synthesized (nascent) proteins in cells and whole organisms. The compound combines the mechanism of action of puromycin (premature translation termination) with a terminal alkyne moiety, enabling click chemistry reactions (CuAAC) with [azide-labeled fluorophores](#) or affinity tags.

Unlike methionine analogs (such as [AHA](#) or [HPG](#)), OPP does not require methionine-free media and allows labeling in complete culture media. Furthermore, the compound is suitable not only for cell cultures but also for *in vivo* labeling in whole organisms.

OPP is widely used to study the regulation of translation, cell growth, stress responses, neurodegenerative diseases, and oncology, as well as to evaluate the effects of protein synthesis inhibitors.

外观:

分子 495.54

量:

CAS 1416561-90-4

编号:

分子 $C_{24}H_{29}N_7O_5$

式:

IUPAC (2S)-2-amino-N-[(2S,3S,4R,5R)-5-[6-(dimethylamino)purin-9-yl]-4-hydroxy-2-(hydroxymethyl)oxolan-3-yl]-3-(4-prop-2-ynoxyphenyl)propanamide
名称:

溶解 二甲基亞砜、二甲基甲醯胺

度:

质量 NMR 1H 和 HPLC-MS (95+%)

控制:

储存 收到後在-20°C 避光條件下保存 24 個月。運輸: 室溫最多可保存3週。乾燥。

条件:

法律 本產品僅供研究目的提供和銷售。本產品並未經過食品、藥品、醫療器械、化妝品等領域的安全性和效力測試，且未經明示或暗示授權用於其他任何
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