

OPP (O-Propargyl-puromycin)

<http://cn.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:

分子量: 495.54

量:

CAS 1416561-90-4

编号:

分子式: $C_{24}H_{29}N_7O_5$

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:

溶解度: 二甲基亚砜、二甲基甲酰胺

度:

质量控制: NMR 1H 和 HPLC-MS (95+%)

控制:

储存条件: 收到后在-20°C 避光条件下保存 24 个月。运输: 室温下最多可保存3周。干燥。

条件:

法律声明: 本产品仅供研究目的提供和销售。 本产品并未经过食品、药品、医疗器械、化妆品等领域的安全性和效力测试, 且未经明示或暗示授权用于其他任何用途, 包括但不限于体外诊断、人类或动物用途, 以及商业用途。