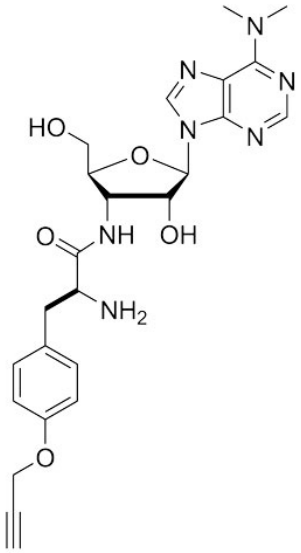
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O-PROPARGYL-PUROMYCINE (OPP)

SKU: CCT-1407



DESCRIPTION

O-propargyl-puromycin (OPP) is an alkyne analog of puromycin that is efficiently incorporated into newly translated proteins, which are rapidly turned over by the proteasome and can be visualized or captured by copper(I)-catalyzed azide-alkyne cycloaddition. Unlike methionine analogs, OPP does not require methionine-free conditions and, uniquely, can be used to label and assay nascent proteins in whole organisms.

SPECIFICATIONS

CAS Number	1416561-90-4
Molecular Weight	495.54

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.

Appearance	Off-white to slightly grey crystalline
Chemical Formula	C24H29N7O5
Purity	>95% (HPLC)
Unit Size	5 mg, 25 mg, 100 mg
Solubility	DMSO, DMF
Storage Instructions	-20°C.
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

SELECTED REFERENCES

1. Leach, R. W., *et al.* (2021). Activity-based RNA-modifying enzyme probing reveals DUS3L-mediated dihydrouridylation. *Nat Chem Biol.*, **17 (11)**, 1178-1187. [PubMed]
2. Morral, C., *et al.* (2020). Zonation of Ribosomal DNA Transcription Defines a Stem Cell Hierarchy in Colorectal Cancer. *Cell Stem Cell.*, **26 (6)**, 845-861.e12. [PubMed]
3. Uchiyama, J., *et al.* (2020). Quantitative nascent proteome profiling by dual pulse labeling with O-propargyl-puromycin and stable isotope labeled amino acids. *The Journal of Biochemistry*, **10**, 1093. [Oxford Academic]
4. Lui, J., *et al.* (2012). Imaging protein synthesis in cells and tissues with an alkyne analog of puromycin. *PNAS*, **109**, 413-8. [PubMed]
5. Forester, C.M., *et al*. (2018). Revealing nascent proteomics in signaling pathways and cell differentiation.*PNAS*, **115**, 2353-8. [PubMed]
6. Tong, M., *et al*. (2020). Effective Method for Accurate and Sensitive Quantitation of Rapid Changes of Newly Synthesized Proteins. *Anal. Chem.*, **92(14)**, 10048-57. [PubMed]

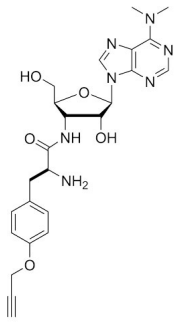
DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

GALLERY IMAGES

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