www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

BIOTIN PICOLYL AZIDE

SKU: CCT-1167

DESCRIPTION

Biotin Picolyl Azide is an advanced biotin probe that incorporates a copper-chelating motif to raise the effective concentration of Cu(I) at the reaction site to boosted the efficiency of the CuAAC reaction resulting in a faster and more biocompatible CuAAC labeling. Up to 40-fold increase of signal intensity, compared to conventional azides was reported (see Selected References).

SPECIFICATIONS

CAS Number	N/A
Molecular Weight	622.74
Appearance	Off-white to slightly orange amorphous solid
Chemical Formula	C27H42N8O7S
Purity	>95% (HPLC)
Unit Size	5 mg, 25 mg, 100 mg
Solubility	DMSO, DMF
Storage Instructions	-20°C. Desiccate
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

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

SELECTED REFERENCES

1. Wood, T. M., *et al.* (2021). Optimization of Metabolic Oligosaccharide Engineering with Ac_4GalNAlk and Ac_4GlcNAlk by an Engineered Pyrophosphorylase. *ACS Chem. Biol.,* [PubMed]
2. Banerjee, A.K.,*et al.* (2020). SARS-CoV-2 disrupts splicing, translation, and protein trafficking to suppress host defenses. *Cells.,* [Cell]
3. Gaebler, A.,*et al.* (2016). A highly sensitive protocol for microscopy of alkyne lipids and fluorescently tagged or immunostained proteins. *J. Lipid. Res.,* **57**, 1934-47. [PubMed]
4. Jiang, H., *et al.* (2014). Monitoring Dynamic Glycosylation in Vivo Using Supersensitive Click Chemistry. *Bioconjugate Chem.,*, **25**, 698-706. [PubMed]
5. Uttamapinant, C., *et al*. (2012). Fast, Cell-Compatible Click Chemistry with Copper-Chelating Azides for Biomolecular Labeling. *Angew. Chem. Int. Ed,.*, **51**, 5852-56. [PubMed]

DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

GALLERY IMAGES

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