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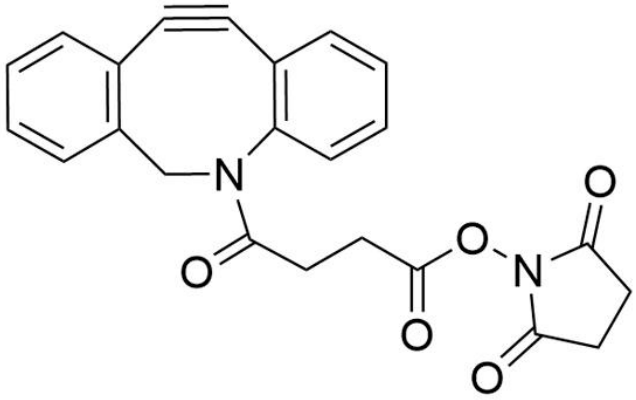
DBCO-NHS ESTER

SKU: CCT-A133



DESCRIPTION

DBCO-NHS Ester, also known as ADIBO-NHS Ester or DIBAC-NHS Ester, is an amine-reactive building block used for modification of amine-containing molecule in organic media. It reacts with primary amines (e.g., side chain of lysine residues or aminosilane-coated surfaces) at neutral or slightly basic pH to form covalent bonds. Short spacer arm adds minimal mass to modified molecules (228.3 daltons).

This product is not recommended for labeling of proteins or any other biopolymers in aqueous buffers due to poor aqueous solubility.

SPECIFICATIONS

CAS Number	1353016-71-3
Molecular Weight	402.4
Appearance	White to slightly grey crystalline
Chemical Formula	C23H18N2O5
Purity	>95% (HPLC)

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

Unit Size	25 mg, 100 mg, 1000 mg, 5 g
Solubility	DMSO, DMF, DCM, THF, Chloroform
Storage Instructions	-20°C. Desiccate
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

SELECTED REFERENCES

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2. Meyer, A.M., *et al.* (2020). Programmable Assembly of Iron Oxide Nanoparticles Using DNA Origami. *Nano Lett.*, **20(4)**, 2799-805. [PubMed]
3. Christie, S.M., *et al.* (2020). Covalently Immobilizing Interferon-γ Drives Filopodia Production through Specific Receptor–Ligand Interactions Independently of Canonical Downstream Signaling. *Bioconjugate Chem. 2020, 31, 5, 1362–1369*, **31(5)**, 1362-69. [PubMed]
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5. Tao, W.A., *et al.* (2019). Identification and Quantification of Newly Synthesized Proteins Using Mass Spectrometry-Based Chemical Proteomics. *Mass Spectrometry-Based Chemical Proteomics.* [PubMed]
6. Saikatr, M., *et al.* (2015). A Three-Arm Scaffold Carrying Affinity Molecules for Multiplex Recognition Imaging by Atomic Force Microscopy: The Synthesis, Attachment to Silicon Tips, and Detection of Proteins. *J. Am. Chem. Soc.*, **137(23)**, 7415-25. [PubMed]
7. Campbell-Verduyn, L.S., *et al.* (2011). Strain-promoted copper-free “click” chemistry for 18F radiolabeling of bombesin. *Angew Chem Int Ed.*, **50(47)**, 11117-20. [PubMed]

DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

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GALLERY IMAGES