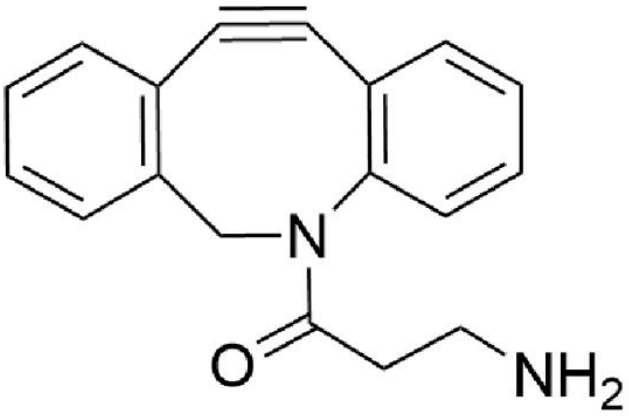
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DBCO AMINE

SKU: CCT-A103



DESCRIPTION

DBCO Amine is a simple DBCO-containing building block used to derivatize carboxyl groups in the presence of activators (e.g. EDC, or DCC) or activated esters (e.g. NHS esters) with DBCO moiety through a stable amide bond.

DBCO reagents, also know as ADIBO or DIBAC are the most commonly used substrates for copper-free click reaction. DBCO compounds react with azide functionalized compounds or biomolecules without the need for a Cu(I) catalyst to result in a stable triazole linkage.

SPECIFICATIONS

CAS Number	1255942-06-3
Molecular Weight	276.33
Appearance	Slightly grey to slightly orange solid
Chemical Formula	C18H16N2O
Purity	>95% (HPLC)

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

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

SELECTED REFERENCES

1. Davis, G. J., *et al.* (2021). Copper-Free Click Enabled Triazabutadiene for Bioorthogonal Protein Functionalization. *Bioconjugate Chem.,* **32 (2)**, 254-258. [PubMed]
2. Kakwere, K., *et al.* (2018). Unimicellar hyperstars as multi-antigen cancer nanovaccines displaying clustered epitopes of immunostimulating peptides. *Biomater. Sci.*, **6**, 5850-8. [PubMed]
3. Zeng D., *et al.* (2012). ^{64}Cu Core-labeled Nanoparticles with High Specific Activity via Metal-Free Click Chemistry. *ACS Med Chem Lett.*, **6(6)**, 5209–19. [PubMed]
4. Bouvet, V., *et al.* (2011). Copper-free click chemistry with the short-lived positron emitter fluorine-18. *Org Biomol Chem.*, **9(21)**, 7393-9. [PubMed]
5. Carpenter, R.D., *et al.* (2011). Copper-Free Click for PET: Rapid 1,3-Dipolar Cycloadditions with a Fluorine-18 Cyclooctyne. *ACS Med Chem Lett.*, **2(12)**, 885-9. [PubMed]
6. Arumugam S., *et al.* (2011). [18F]azadibenzocyclooctyne ([18F]ADIBO): a biocompatible radioactive labeling synthon for peptides using catalyst free [3+2] cycloaddition. *Bioorg Med Chem Lett.*, **21(23)**, 6987-91. [PubMed]

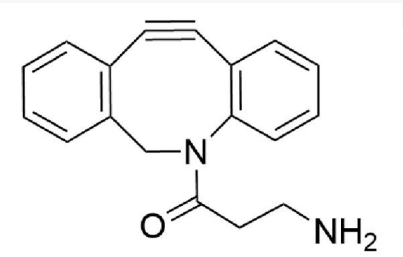
DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

GALLERY IMAGES

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