

## DBCO NHS ester (A270193)

### Specifications:

Name:	DBCO NHS ester
Description:	Dibenzocyclooctyne (ADIBO, DBCO) is one of the most reactive cycloalkynes for strain promoted alkyne azide cycloaddition (spAAC) - a copper free Click chemistry reaction. This is an amine-reactive NHS ester that provides easy attachment of the reactive moiety to almost any primary or secondary amine group, such as that of protein, peptide, or small molecule amine. DBCO reacts instantly with azides. The rate of the reaction is much higher than that of copper-catalyzed reaction, and reactions with many other cyclooctynes. Unlike some other cyclooctynes, DBCO does not react with tetrazines - this allows to carry out orthogonal conjugation of azides with DBCO, and trans-cyclooctenes with tetrazines.
CAS Number:	1384870-47-6
Mass Spec M+ Shift after Conjugation:	315.1
Purity:	95% (by 1H NMR and HPLC-MS).
Molecular Formula:	C <sub>25</sub> H <sub>22</sub> N <sub>2</sub> O <sub>5</sub>
Molecular Weight:	430.45 kDa
Product Form:	Off white solid.
Solubility:	Good in DCM, DMF, and DMSO.
Storage:	Shipped at room temperature. Upon delivery, store in the dark at -20°C. Avoid prolonged exposure to light. Desiccate.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

### Images:

DBCO (ADIBO) NHS ester structure.

