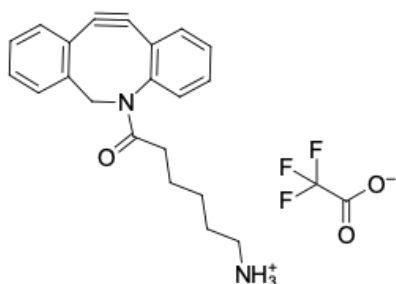


DBCO amine trifluoroacetate

<http://www.lumiprobe.com/p/dbco-amine>

Bifunctional linker containing dibenzocyclooctyne (DBCO, ADIBO) for strain-promoted copper-free click reaction (SPAAC) and free amine for the coupling with various electrophilic compounds like activated esters and epoxides.

Dibenzocyclooctyne (ADIBO, DBCO) is one of the most reactive cycloalkynes for strain-promoted alkyne azide cycloaddition (SPAAC) – a copper-free click chemistry reaction. DBCO reacts instantly with azides. The reaction rate 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.



Structure of DBCO amine trifluoroacetate

General properties

Appearance: beige solid

Molecular weight: 432.44

Molecular formula: $C_{23}H_{23}F_3N_2O_3$

Solubility: good in DMF, DMSO, DCM

Quality control: NMR 1H and HPLC-MS (95+%)

Storage conditions: 24 months after receipt at $-20^\circ C$ in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.