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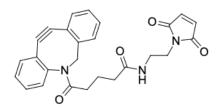
DBCO-maleimide

http://www.lumiprobe.com/p/n-glutaroyl-dbco-maleimide

DBCO-maleimide is a bifunctional linker containing a maleimide group and a DBCO (Dibenzocyclooctyne, ADIBO) moiety.

The maleimide group specifically and efficiently reacts with thiols to form thioether bonds. The low mass weight adds minimal spacer to modified molecules and enables the simple and efficient incorporation of the DBCO moiety into cysteine-containing peptides or other thiol-containing biomolecules.

DBCO is one of the most reactive cycloalkynes for strain-promoted alkyne azide cycloaddition (SPAAC). DBCO reacts instantly with azides without needing a Cu(I) catalyst, resulting in a stable triazole linkage. The reaction rate is much higher than that of copper-catalyzed reaction, and reactions with many other cyclooctynes. Unlike other cyclooctynes, DBCO does not react with tetrazines — this allows to carry out orthogonal conjugation of azides with DBCO and trans-cyclooctenes with tetrazines.



Structure of DBCO-maleimide

General properties

Appearance: white solid Molecular weight: 441.49 Molecular formula: $C_{26}H_{23}N_3O_4$

Solubility: methylene, DMSO, DMF, acetonitrile

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

Storage conditions: 12 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks.

Desiccate.

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efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic

products.