

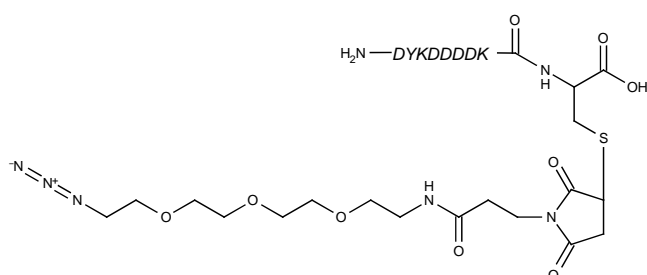
DATA SHEET



Azide-PEG₃-FLAG

Azide-PEG₃-FLAGtag (DYKDDDDK)

Cat. No.	Amount
CLK-032-S	0.5 μ mol
CLK-032-L	5x 0.5 μ mol



Structural formula of DBCO-PEG₄-FLAG

For research use only!

Shipping: shipped on blue ice

Storage Conditions: store at -20 °C

Shelf Life: 12 months

Molecular Formula: C₅₉H₈₈N₁₆O₂₇S

Molecular Weight: 1485.49 g/mol

Purity: > 95 % (HPLC)

Form: solid

Solubility: water, PBS (up to 30 mM tested)

Description:

Azide-PEG₃-FLAG enables the FLAG-tag (DYKDDDDK) attachment to any terminal Alkyne- or Cyclooctyne (e.g. DBCO)-functionalized molecule via Cu(I)-catalyzed terminal Alkyne-Azide Click Chemistry (CuAAC) or Cu(I)-free strain-promoted Alkyne-Azide Click Chemistry (SPAAC), respectively.

The resulting FLAG-tagged molecules can subsequently be detected by an anti-FLAG antibody that is either immobilized onto a matrix (for purification) or coupled with a fluorescent dye or reporter enzyme for direct or indirect detection, respectively. Molecule solubility and efficient FLAG-tag detection is ensured by the integrated PEG-linker.

Azide-FLAG (without PEG-linker) has been successfully used for the detection of Azide-tagged glycoproteins in cell lysates (final concentration: 100 μ M)^[1]. This concentrations may serve as a starting point for individual assay set-up.

Related Products:

DBCO-PEG₄-FLAG (#CLK-032)

Selected References:

[1] Wang *et al.* (2011) Sulfated Ligands for the Copper(I)-catalyzed Azide-Alkyne Cycloaddition. *Chem Asian J.* **6**(10):2796.