

## Product Information

### AZD/Methyl ester PEG reagent, AZD-PEG5-methyl ester, Purity 98%

**Cat. No.:** X24-03-YW0328

**Size:** 250 mg; 500 mg; 1 g

**CAS Number:** 2055014-59-8

**PubChem CID:** 102514893

**Synonym:** 2055014-59-8; Azd-peg5-methyl ester; AZD-PEG5-methyl ester; Azd-peg5-methylester; BP-22054

**This product is for research use only and is not intended for diagnostic use.**



#### Product Information

<b>Description</b>	AZD-PEG5-methyl ester is a PEG linker comprising an AZD (azido) group and a methyl ester group. The methyl ester functionality can undergo hydrolysis under strong basic conditions, leading to the cleavage of the ester bond.
<b>Molecular Weight</b>	552.6
<b>Molecular Formula</b>	C <sub>27</sub> H <sub>40</sub> N <sub>2</sub> O <sub>10</sub>
<b>Functional Group 1</b>	AZD
<b>Functional Group 2</b>	Methyl ester
<b>Functional Group 3</b>	None
<b>IUPAC Name</b>	Methyl 3-[2-[2-[2-[3-oxo-3-[4-[3-oxo -3-(2-oxoazetidin-1-yl)propyl]anilino]propoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoate
<b>InChI</b>	InChI=1S/C27H40N2O10/c1-34-27(33)10-13-36-15-17-38-19-21-39-20-18-37-16-14-35-12-9-24(30) 28-23-5-2-22(3-6-23)4-7-25(31)29-11-8-26(29)32/h2-3,5-6H,4,7-21H2,1H3,(H,28,30)
<b>InChI Key</b>	XUYJQEFWQWNLCF-UHFFFAOYSA-N
<b>Canonical SMILES</b>	COC(=O)CCOCCOCCOCCOCCOCCOCC(=O)NC1=CC=C(C=C1)CCC(=O)N2CCC2=O
<b>Form</b>	Liquid
<b>Purity</b>	98%
<b>Identity</b>	Confirmed by NMR.
<b>Applications</b>	AZD-PEG5-methyl ester can be employed in various bioconjugation reactions, particularly in the context of click chemistry, where the AZD group reacts with alkynes or strained cyclooctynes. After conjugation, the methyl ester can be selectively cleaved under strong basic conditions, allowing for controlled release of the attached payload or modification of the conjugated molecule.

**Storage**

Store at -20°C

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