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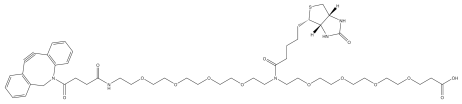
Product Information

Fmoc-NH-pentoic acid-NHS-SO_3Na



Cat. No.: X24-09-YYX132

Size: 10 mg; 25 mg

CAS Number: 2706304-99-4

Synonym: 2706304-99-4; Fmoc-NH-pentoic acid-NHS-SO_3Na

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

Product Information

Description	This compound is often employed in peptide synthesis. The Fmoc group provides protection during the synthesis process, while the NHS and sulfonate functionalities enable conjugation and modification. It can be used to create custom peptides for research in areas like biochemistry and medicinal chemistry.
Molecular Weight	538.5
Molecular Formula	$C_{24}H_{23}N_2N_aO_9S$
Functional Group 1	Acid
Functional Group 2	Fmoc
Functional Group 3	NHS
Reactive Group 1	Amine
InChI	InChI=1S/C24H24N2O9S.Na/c27-21-13-20(36(31,32)33)23(29)26(21)35-22(28)11-5-6-12-25-24(30)34-14-19-17-9-3-1-7-15(17)16-8-2-4-10-18(16)19;/h1-4,7-10,19-20H,5-6,11-14H2,(H,25,30)(H,31,32,33)
InChI Key	GQJNNONRSADJFV-UHFFFAOYSA-N
Canonical SMILES	C1C(C(=O)N(C1=O)OC(=O)CCCCNC(=O)OCC2C3=CC=CC=C3C4=CC=CC=C24)S(=O)(=O)O.[Na]
Form	Solid
Identity	Confirmed by NMR.
Applications	This compound is primarily utilized in peptide coupling and modification reactions. The NHS (*N*-hydroxysuccinimide) group facilitates the formation of stable amide bonds, making it valuable in the synthesis of peptides, drug molecules, and bioconjugates.
Storage	Store at -20°C.