

Product Information

Maleimide/NHS ester PEG reagent, *N*-(α -Maleimidoacetoxy)succinimide, Purity 95%

Cat. No.: X24-03-YW0774

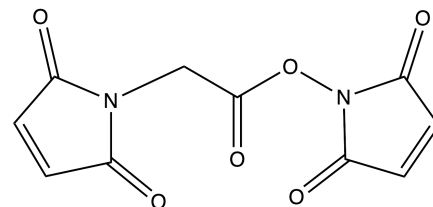
Size: 250 mg; 500 mg; 1 g; 5 g

CAS Number: 55750-61-3

PubChem CID: 3299229

Synonym: 55750-61-3; *N*-succinimidyl maleimidoacetate; AMAS; Maleimidoacetic acid *N*-hydroxysuccinimide ester

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



Product Information

Description	<i>N</i> -(α -Maleimidoacetoxy)succinimide is a reactive compound featuring a maleimide group and a succinimide ester. The maleimide group reacts with thiols to form stable covalent bonds, while the succinimide ester can react with primary amines, enabling conjugation. The compound is commonly used in bioconjugation.
Molecular Weight	252.2
Molecular Formula	C ₁₀ H ₈ N ₂ O ₆
Functional Group 1	Maleimide
Functional Group 2	NHS ester
Reactive Group 1	Amine
Reactive Group 2	Thiol
IUPAC Name	(2,5-Dioxopyrrolidin-1-yl) 2-(2,5-dioxopyrrol-1-yl)acetate
InChI	InChI=1S/C10H8N2O6/c13-6-1-2-7(14)11(6)5-10(17)18-12-8(15)3-4-9(12)16/h1-2H,3-5H2
InChI Key	TYKASZBHF XBROF-UHFFFAOYSA-N
Canonical SMILES	C1CC(=O)N(C1=O)OC(=O)CN2C(=O)C=CC2=O
Form	Solid
Purity	95%
Identity	Confirmed by NMR.
Applications	<i>N</i> -(α -Maleimidoacetoxy)succinimide is widely used in protein labeling, drug delivery, and the creation of biomolecular conjugates. It enables selective attachment of thiol-containing molecules to amine-functionalized biomolecules in research applications.

Storage

Store at -20°C.
