## **Product Information**

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## **SIA Crosslinker**

Cat. No.: X24-09-YYX141

Size: 500 mg; 1 g; 2 g

CAS Number: 39028-27-8

PubChem CID: 3299230

Synonym: 39028-27-8; N-Succinimidyl Iodoacetate; SIA Crosslinker; Iodoacetic acid

N-hydroxysuccinimide ester; 2,5-Dioxopyrrolidin-1-yl 2-iodoacetate

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

## **Product Information**

protein-protein interactions and the stabilization of protein complexes. It finds application research fields, including the development of therapeutic agents and the understanding processes.Molecular Weight283Molecular FormulaCeHeiNO4Functional Group 1EsterFunctional Group 2ThiolFunctional Group 3NoneReactive Group 1AlkenylReactive Group 2AlkenylIUPAC Name(2,5-Dioxopyrrolidin-1-yl) 2-iodoacetateInChIInChI=1S/C6H6INO4/c7-3-6(11)12-8-4(9)1-2-5(8)10/h1-3H2InChI KeyVRDGQQTWSGDXCU-UHFFFAOYSA-NCanonical SMILESC1CC(=O)N(C1=O)OC(=O)CIFormSolidSolubilityDMSO, DCM, DMFIdentityConfirmed by NMR.ApplicationsSIA crosslinkers are employed in protein crosslinking studies to form stable covalent b proteins. This can help in understanding protein-protein interactions, structural studies,		
Molecular Formula C <sub>6</sub> H <sub>6I</sub> NO <sub>4</sub> Functional Group 1 Ester   Functional Group 2 Thiol   Functional Group 3 None   Reactive Group 1 Alkenyl   Reactive Group 2 Alkynyl   IUPAC Name (2,5-Dioxopyrrolidin-1-yl) 2-iodoacetate   InChl InChl=1S/C6H6INO4/c7-3-6(11)12-8-4(9)1-2-5(8)10/h1-3H2   InChl Key VRDGQQTWSGDXCU-UHFFFAOYSA-N   Canonical SMILES C1CC(=O)N(C1=O)OC(=O)CI   Form Solid   Solubility DMSO, DCM, DMF   Identity Confirmed by NMR.   Applications SIA crosslinkers are employed in protein crosslinking studies to form stable covalent bo proteins. This can help in understanding protein-protein interactions, structural studies,	Description	SIA crosslinker is designed to form covalent bonds between biomolecules, enabling the study of protein-protein interactions and the stabilization of protein complexes. It finds applications in various research fields, including the development of therapeutic agents and the understanding of cellular processes.
Functional Group 1EsterFunctional Group 2ThiolFunctional Group 3NoneReactive Group 1AlkenylReactive Group 2AlkynylIUPAC Name(2,5-Dioxopyrrolidin-1-yl) 2-iodoacetateInChlInChl=1S/C6H6INO4/c7-3-6(11)12-8-4(9)1-2-5(8)10/h1-3H2InChl KeyVRDGQQTWSGDXCU-UHFFFAOYSA-NCanonical SMILESC1CC(=O)N(C1=O)OC(=O)ClFormSolidSolubilityDMSO, DCM, DMFIdentityConfirmed by NMR.ApplicationsSIA crosslinkers are employed in protein crosslinking studies to form stable covalent bo proteins. This can help in understanding protein-protein interactions, structural studies,	Molecular Weight	283
Functional Group 2ThiolFunctional Group 3NoneReactive Group 1AlkenylReactive Group 2AlkynylIUPAC Name(2,5-Dioxopyrrolidin-1-yl) 2-iodoacetateInChlInChl=1S/C6H6IN04/c7-3-6(11)12-8-4(9)1-2-5(8)10/h1-3H2InChl KeyVRDGQQTWSGDXCU-UHFFFAOYSA-NCanonical SMILESC1CC(=0)N(C1=0)OC(=O)ClFormSolidSolubilityDMSO, DCM, DMFIdentityConfirmed by NMR.ApplicationsSIA crosslinkers are employed in protein crosslinking studies to form stable covalent bo proteins. This can help in understanding protein-protein interactions, structural studies,	Molecular Formula	C <sub>6</sub> H <sub>61</sub> NO <sub>4</sub>
Functional Group 3NoneReactive Group 1AlkenylReactive Group 2AlkynylIUPAC Name(2,5-Dioxopyrrolidin-1-yl) 2-iodoacetateInChlInChl=1S/C6H6INO4/c7-3-6(11)12-8-4(9)1-2-5(8)10/h1-3H2InChl KeyVRDGQQTWSGDXCU-UHFFFAOYSA-NCanonical SMILESC1CC(=O)N(C1=O)OC(=O)CIFormSolidSolubilityDMSO, DCM, DMFIdentityConfirmed by NMR.ApplicationsSIA crosslinkers are employed in protein crosslinking studies to form stable covalent be proteins. This can help in understanding protein-protein interactions, structural studies, stu	Functional Group 1	Ester
Reactive Group 1AlkenylReactive Group 2AlkynylIUPAC Name(2,5-Dioxopyrrolidin-1-yl) 2-iodoacetateInChlInChl=1S/C6H6INO4/c7-3-6(11)12-8-4(9)1-2-5(8)10/h1-3H2InChl KeyVRDGQQTWSGDXCU-UHFFFAOYSA-NCanonical SMILESC1CC(=O)N(C1=O)OC(=O)ClFormSolidSolubilityDMSO, DCM, DMFIdentityConfirmed by NMR.ApplicationsSIA crosslinkers are employed in protein crosslinking studies to form stable covalent bo proteins. This can help in understanding protein-protein interactions, structural studies, structural stu	Functional Group 2	Thiol
Reactive Group 2AlkynylIUPAC Name(2,5-Dioxopyrrolidin-1-yl) 2-iodoacetateInChIInChI=1S/C6H6INO4/c7-3-6(11)12-8-4(9)1-2-5(8)10/h1-3H2InChI KeyVRDGQQTWSGDXCU-UHFFFAOYSA-NCanonical SMILESC1CC(=O)N(C1=O)OC(=O)CIFormSolidSolubilityDMSO, DCM, DMFIdentityConfirmed by NMR.ApplicationsSIA crosslinkers are employed in protein crosslinking studies to form stable covalent be proteins. This can help in understanding protein-protein interactions, structural studies, proteins.	Functional Group 3	None
IUPAC Name(2,5-Dioxopyrrolidin-1-yl) 2-iodoacetateInChIInChI=1S/C6H6INO4/c7-3-6(11)12-8-4(9)1-2-5(8)10/h1-3H2InChI KeyVRDGQQTWSGDXCU-UHFFFAOYSA-NCanonical SMILESC1CC(=O)N(C1=O)OC(=O)CIFormSolidSolubilityDMSO, DCM, DMFIdentityConfirmed by NMR.ApplicationsSIA crosslinkers are employed in protein crosslinking studies to form stable covalent be proteins. This can help in understanding protein-protein interactions, structural studies,	Reactive Group 1	Alkenyl
InChlInChl=1S/C6H6INO4/c7-3-6(11)12-8-4(9)1-2-5(8)10/h1-3H2InChl KeyVRDGQQTWSGDXCU-UHFFFAOYSA-NCanonical SMILESC1CC(=O)N(C1=O)OC(=O)CIFormSolidSolubilityDMSO, DCM, DMFIdentityConfirmed by NMR.ApplicationsSIA crosslinkers are employed in protein crosslinking studies to form stable covalent be proteins. This can help in understanding protein-protein interactions, structural studies,	Reactive Group 2	Alkynyl
InChl KeyVRDGQQTWSGDXCU-UHFFFAOYSA-NCanonical SMILESC1CC(=O)N(C1=O)OC(=O)CIFormSolidSolubilityDMSO, DCM, DMFIdentityConfirmed by NMR.ApplicationsSIA crosslinkers are employed in protein crosslinking studies to form stable covalent be proteins. This can help in understanding protein-protein interactions, structural studies,	IUPAC Name	(2,5-Dioxopyrrolidin-1-yl) 2-iodoacetate
Canonical SMILESC1CC(=O)N(C1=O)OC(=O)CIFormSolidSolubilityDMSO, DCM, DMFIdentityConfirmed by NMR.ApplicationsSIA crosslinkers are employed in protein crosslinking studies to form stable covalent be proteins. This can help in understanding protein-protein interactions, structural studies,	InChl	InChI=1S/C6H6INO4/c7-3-6(11)12-8-4(9)1-2-5(8)10/h1-3H2
Form Solid   Solubility DMSO, DCM, DMF   Identity Confirmed by NMR.   Applications SIA crosslinkers are employed in protein crosslinking studies to form stable covalent be proteins. This can help in understanding protein-protein interactions, structural studies,	InChI Key	VRDGQQTWSGDXCU-UHFFFAOYSA-N
Solubility DMSO, DCM, DMF   Identity Confirmed by NMR.   Applications SIA crosslinkers are employed in protein crosslinking studies to form stable covalent be proteins. This can help in understanding protein-protein interactions, structural studies,	Canonical SMILES	C1CC(=O)N(C1=O)OC(=O)CI
Identity Confirmed by NMR.   Applications SIA crosslinkers are employed in protein crosslinking studies to form stable covalent be proteins. This can help in understanding protein-protein interactions, structural studies,	Form	Solid
Applications   SIA crosslinkers are employed in protein crosslinking studies to form stable covalent be proteins. This can help in understanding protein-protein interactions, structural studies,	Solubility	DMSO, DCM, DMF
proteins. This can help in understanding protein-protein interactions, structural studies,	Identity	Confirmed by NMR.
improving the stability of therapeutic proteins.	Applications	SIA crosslinkers are employed in protein crosslinking studies to form stable covalent bonds between proteins. This can help in understanding protein-protein interactions, structural studies, and improving the stability of therapeutic proteins.

Storage Store at -20°C.