

Product Information

MBS

Cat. No.: X24-09-YYX138

Size: 250 mg; 500 mg; 1 g

CAS Number: 58626-38-3

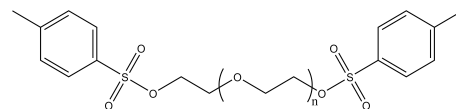
PubChem CID: 93861

Synonym: 58626-38-3; 3-Maleimidobenzoic acid *N*-hydroxysuccinimide ester; MBS

Crosslinker; 3-Maleimidobenzoyl *N*-hydroxysuccinimide; *N*-Succinimidyl

3-Maleimidobenzoate

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



Product Information

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|---------------------------|---|
| Description | MBS is a crosslinking agent that is frequently employed to couple proteins or other biomolecules. It is useful in various applications such as immunoassays, where it helps to create stable conjugates. It can also be used in the modification of enzymes to improve their stability and functionality. |
| Molecular Weight | 314.3 |
| Molecular Formula | C ₁₅ H ₁₀ N ₂ O ₆ |
| Functional Group 1 | Ester |
| Functional Group 2 | Maleimide |
| Functional Group 3 | None |
| Reactive Group 1 | Thiol |
| IUPAC Name | (2,5-Dioxopyrrolidin-1-yl) 3-(2,5-dioxopyrrol-1-yl)benzoate |
| InChI | InChI=1S/C15H10N2O6/c18-11-4-5-12(19)16(11)10-3-1-2-9(8-10)15(22)23-17-13(20)6-7-14(17)21/h1-5,8H,6-7H2 |
| InChI Key | LLXVXPPXELIDGQ-UHFFFAOYSA-N |
| Canonical SMILES | C1CC(=O)N(C1=O)OC(=O)C2=CC(=CC=C2)N3C(=O)C=CC3=O |
| Form | Solid |
| Identity | Confirmed by NMR. |
| Applications | MBS is a crosslinker that reacts with primary amines and can be used to create stable linkages between proteins and other biomolecules. It is utilized in the development of bioconjugates for targeted drug delivery, as well as in immunoassays and other bioanalytical techniques. |
| Storage | Store at -20°C. |

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