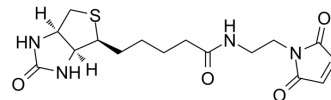


Biotin-C2-maleimide

Cat. No.:	HY-D1546
CAS No.:	139554-72-6
Molecular Formula:	C ₁₆ H ₂₂ N ₄ O ₄ S
Molecular Weight:	366.44
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Biotin-C2-maleimide is an antibody conjugate reagent, can bind to many biomolecules without significantly changing the biological activity of the target molecule ^{[1][2]} .
In Vitro	<p>Biotin-C2-maleimide can act bioconjugation with 5 eq. SUMO-1 probes^[1].</p> <ol style="list-style-type: none"> 1. Biotin C2 maleimide (ATT Bioquest, dissolved in DMSO) is performed in Tris buffer (50 mM Tris, 300 mM NaCl; pH 7.0) after 15 min reduction with Tris (2-carboxyethyl)phosphine (TCEP, 120 μM) at room temperature. 2. After 1 h incubation, the unreacted Biotin is separated by Ni-NTA affinity chromatography followed by dialysis against PBS buffer (pH 7.4). <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Brüninghoff K, Wulff S, Dörner W, Geiss-Friedlander R, Mootz HD. A Photo-Crosslinking Approach to Identify Class II SUMO-1 Binders. *Front Chem.* 2022 May 30;10:900989.

[2]. Benjamin GD, et al. Antibody conjugates and methods of making the antibody conjugates: United States, US20160361436A1. 2016-12-15.

Caution: Product has not been fully validated for medical applications. For research use only.

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