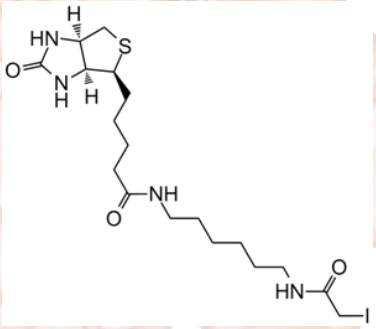
Product Data Sheet

Iodoacetyl-LC-Biotin



Cat. No.:	A8009
CAS No.:	93285-75-7
Formula:	C18H31IN4O3S
M.Wt:	510.43
Synonyms:	N-Biotinyl-N'-(iodoacetyl)-1,6-hexanediamine, Iaa-biotin
Target:	Biotinylation Reagents
Pathway:	Sulfhydryl Biotinylation Reagents
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

≥51 mg/mL in DMSO with gentle warming; insoluble in EtOH; insoluble in H2O

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	1.9591 mL	9.7957 mL	19.5913 mL
5 mM	0.3918 mL	1.9591 mL	3.9183 mL
10 mM	0.1959 mL	0.9796 mL	1.9591 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	Sulfhydryl-reactive biotinylation reagent, iodoacetyl-activated
IC_{50} & Target	

In Vitro

Cell Viability Assay

Preparation method：	Soluble in DMSO or DMF.
Reacting conditions:	4mM, room temperature for 90min
Applications:	Immunoglobulin G (26.7 nmol) was dissolved in 1ml of 0.1M sodium phosphate, 5Mm EDTA buffer, pH 6. To this solution, DTT was added to produce a 50mM final concentration and incubation for 90min at 37 °C, the

		solution was allowed to cool to room temperature. Excess DTT was removed by molecular sieve chromatography using 50mM Tris, pH 8.3, with 5mM EDTA as the elution buffer. The IgG with reduced sulfhydryl groups was then biotinylated; 30 µl of 4mM iodoacetyl-LC-biotin in Me2SO was added and the mixture was incubated for 90min at room temperature in the dark. Finally, residual biotinylating reagent and free biotin were removed by dialysis against 0.1mM PBS, pH 7.2, for 72h. Protein concentrations were determined by BCA protein assay. Total biotin covalently bound to IgG was determined by an avidin-binding assay.
In Vivo	**Animal experiment**	
	Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Anna Bogusiewicz,Nell I. Mock, and Donald M. Mock. Instability of the biotin–protein bond in human plasma. Analytical Biochemistry 327 (2004) 156–161.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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