

Product Data Sheet

Product Name: Biotin-BMCC

Cat. No.: GC26386

Chemical Properties

Cas. No. 188682-72-6

Formula $C_{26}H_{39}N_5O_5S$ M.Wt 533.68

Solubility ~4.5 mg/ml (8.5 mM) in DMSO (slightly less soluble in DMF) Storage Store at -20°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Biotin-BMCC is a sulfhydryl-reactive biotinylation reagent with a long spacer arm. Maleimide-activated reagents are effective for protein modification of sulfhydryl groups. Maleimide groups react efficiently and specifically with free (reduced) sulfhydryls at pH 6.5-7.5 to form stable thioether bonds. Most proteins have cysteine residues whose side-chain sulfur atoms typically occur in pairs as disulfide bonds. Reduction of these disulfide bonds exposes the sulfhydryl group required as a target for biotinylation with maleimide-activated reagents. Alternatively, sulfhydryl groups can be added to molecules using various modification reagents.

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

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Biotin-BMCC is not directly soluble in water or aqueous buffers; however, if it is first dissolved in dimethylsulfoxide (DMSO) or other organic solvent, then it can be diluted and remain soluble in an aqueous buffer at typical reaction concentrations.

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