
Product Data Sheet

Product Name: Biotin sulfone

Cat. No.: GC35521

Chemical Properties

Cas. No. 40720-05-6

SMILES O=C(O)CCCC[C@@H]([C@](N1)([H])[C@@]2([H])NC1=O)S(C2)(=O)=O

Formula C10H16N2O5S M.Wt 276.31

Solubility DMSO : 250 mg/mL (904.78 mM; Need ultrasonic) Storage Store at -20°C

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 sulfone is an oxidized form of biotin.¹ It binds to avidin with a binding ratio of 0.332 compared with biotin.² Biotin sulfone has been used to immobilize oligosaccharides on avidin-coated surfaces for the detection of anti-*C. albicans* antibodies.¹

1. Collot, M., Sendid, B., Fievez, A., et al. Biotin sulfone as a new tool for synthetic oligosaccharide immobilization: Application to multiple analysis profiling and surface plasmonic analysis of anti-Candida albicans antibody reactivity against α and β (1 \rightarrow 2) oligomannosides. *J. Med. Chem.* 51(19)6201-6210(2008)
2. Zempleni, J., and Mock, D.M. Advanced analysis of biotin metabolites in body fluids allows a more accurate measurement of biotin bioavailability and metabolism in humans. *J. Nutr.* 129(2S Suppl)494S-497S(1999)

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

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