
Product Data Sheet

Product Name: Norbiotinamine

Cat. No.: GC66443

Chemical Properties

Cas. No. 173401-47-3

Formula $C_9H_{17}N_3OS$

M.Wt 215.32

Solubility H₂O : 200 mg/mL (928.85 mM; ultrasonic and warming and heat to 60°C)

Storage 4°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

Norbiotinamine is an alternative to biotin. Norbiotinamine can be coupled with a carboxylic group of amino acids to give inverse peptides, having the amide linkage oriented in the opposite direction^[1].

In order to couple biotin to amino acids, reaction has to be with an amino group. An example is biocytin (biotin lysine). However, Norbiotinamine could be coupled with a carboxylic group of amino acids to give inverse peptides, having the amide linkage oriented in the opposite direction. As an example, Norbiotinamine is coupled with the NHS ester of N-Boc-glutamic acid γ -benzyl ester. The resulting norbiotinylamide of γ glutamic acid (VII), obtained after deprotection, is similar to biocytin, but it has a shorter aliphatic chain and an inverted amide bond^[1].

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

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