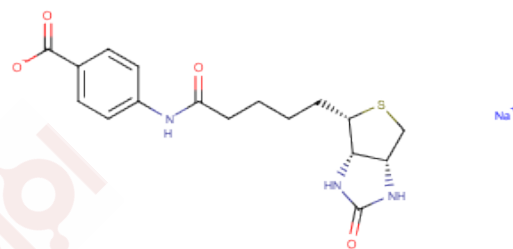


(+)-Biotin 4-Amidobenzoic Acid (sodium salt)

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 102418-74-6 |
| Formula: | C17H20N3NaO4S |
| Molecular Weight: | 385.41 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|---------------|--|
| Description | (+)-Biotin 4-amidobenzoic acid is a substrate of biotinidase, which cleaves biotin amide to give biotin in vivo. Biotin is an essential coenzyme for certain carboxylases and is used to modify histones and regulate gene transcription. Biotinidase has key roles in intestinal absorption of biotin, the transport of biotin in plasma, and in the regulation of histone biotinylation. (+)-Biotin 4-amidobenzoic acid is hydrolyzed by biotinidase to release 4-aminobenzoic acid (PABA), which can be quantified by either fluorescent or colorimetric methods. This approach is used in biotinidase activity assays in newborn screening protocols to evaluate biotinidase deficiency. |
| Targets(IC50) | Others |

Solubility Information

| | |
|------------|---|
| Solubility | PBS (pH 7.2): 2 mg/mL (5.19 mM), Sonication is recommended. DMSO: 1 mg/mL (2.59 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.5946 mL | 12.9732 mL | 25.9464 mL |
| 5 mM | 0.5189 mL | 2.5946 mL | 5.1893 mL |
| 10 mM | 0.2595 mL | 1.2973 mL | 2.5946 mL |
| 50 mM | 0.0519 mL | 0.2595 mL | 0.5189 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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