

**(+)-Biotin 4-Amidobenzoic Acid (sodium salt)****Chemical Properties**

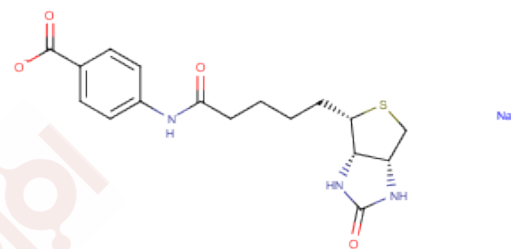
CAS No. : 102418-74-6

Formula: C<sub>17</sub>H<sub>20</sub>N<sub>3</sub>NaO<sub>4</sub>S

Molecular Weight: 385.41

Appearance:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

**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)
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**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.

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