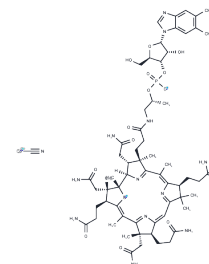


Vitamin B12 (Standard)

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 68-19-9 |
| Formula: | C ₆₃ H ₈₈ CoN ₁₄ O ₁₄ P |
| Molecular Weight: | 1355.37 |
| Storage: | Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

| | |
|---------------|--|
| Description | Vitamin B12 (Standard) is the analytical standard of Vitamin B12, primarily used for research and quantitative analysis. Vitamin B12 (Cyanocobalamin) is a cobalt-containing complex essential for the normal functioning of the brain, nervous system, and hematopoiesis. It acts as a vital cofactor for enzymes such as methionine synthase and methylmalonyl-CoA mutase, participating in DNA synthesis, fatty acid metabolism, and amino acid conversion. It is critical for the maintenance of the myelin sheath in neurons and the maturation of red blood cells. |
| Targets(IC50) | Endogenous Metabolite |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|-----------|
| 1 mM | 0.7378 mL | 3.689 mL | 7.3781 mL |
| 5 mM | 0.1476 mL | 0.7378 mL | 1.4756 mL |
| 10 mM | 0.0738 mL | 0.3689 mL | 0.7378 mL |
| 50 mM | 0.0148 mL | 0.0738 mL | 0.1476 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.

Reference

Smith A D, Warren M J, Refsum H. Vitamin B12[J]. Advances in food and nutrition research, 2018, 83: 215-279.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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