

Product Name	: Cyanocobalamin
Synonyms	: Cobalamin; NSC 80365
Cat No.	: M15604
CAS Number	: 68-19-9
Molecular Formula	: C ₆₃ H ₈₈ CoN ₁₄ O ₁₄ P
Formula Weight	: 1355.37
Chemical Name	: Cobinamide, cyanide phosphate 3'-ester with 5,6-dimethyl-1- α -D- ribofuranosylbenzimidazole, inner salt
Description	: Vitamin B12 is a water soluble vitamin with a key role in the normal functioning of the brain and nervous system, and for the formation of blood.
Pathway	: Metabolic Enzyme/Protease
Target	: Vitamin
Receptor	: VB12
Solubility	: Ethanol: 10 mg/mL (7.37 mM); Water: 6 mg/mL (4.42 mM); DMSO: 75 mg/mL (55.33 mM)
SMILES	: <chem>Cc(c(C)c1)cc2c1[n+]3cn2C4C(C(C(O4)CO)OP(OC(CNC(CCC5(C(C6C7(C(CC(N)=O)(C(C8=N7[Co+3]39%10([N-]6C5=C(C%11=N9C(C(C)(C%11CCC(N)=O)C)=CC%12=N%10C(C(CC(N)=O)(C%12CCC(N)=O)C)=C8C)C)[CH-]#N)CCC(N)=O)C)CC(N)=O)C)=O)C)([O-])=O)O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Ghazanfari S, et al. Drug Res (Stuttg). 2014 Mar;64(3):113-7.

