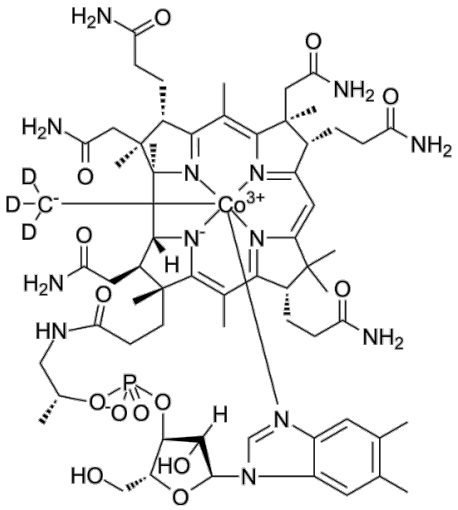
# Product Data Sheet

Product Name: Methylcobalamin-d 3
Cat. No.: GC80507

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 39818-96-7 | | |
| Formula | $C_{63}H_{88}D_3CoN_{13}O_{14}P$ | M.Wt | 1347.4 |
| Solubility | | Storage | Store at -20°C |
| 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

Methylcobalamin -d 3 (Mecobalamin-d 3 ) is the deuterium labeled Methylcobalamin.

Methylcobalamin (CH3-B12), a cobalamin, is a form of vitamin B12 [1].

In Vitro, Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs.

***Caution: Product has not been fully validated for medical applications. For research use only.***
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***Address: 10292 Central Ave. #205, Montclair, CA, USA***

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References:

[1]. Banerjee, R. et al. The many faces of vitamin B12: catalysis by cobalamin-dependent enzymes. Annu Rev Biochem, 2003. 72: p. 209-47.

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