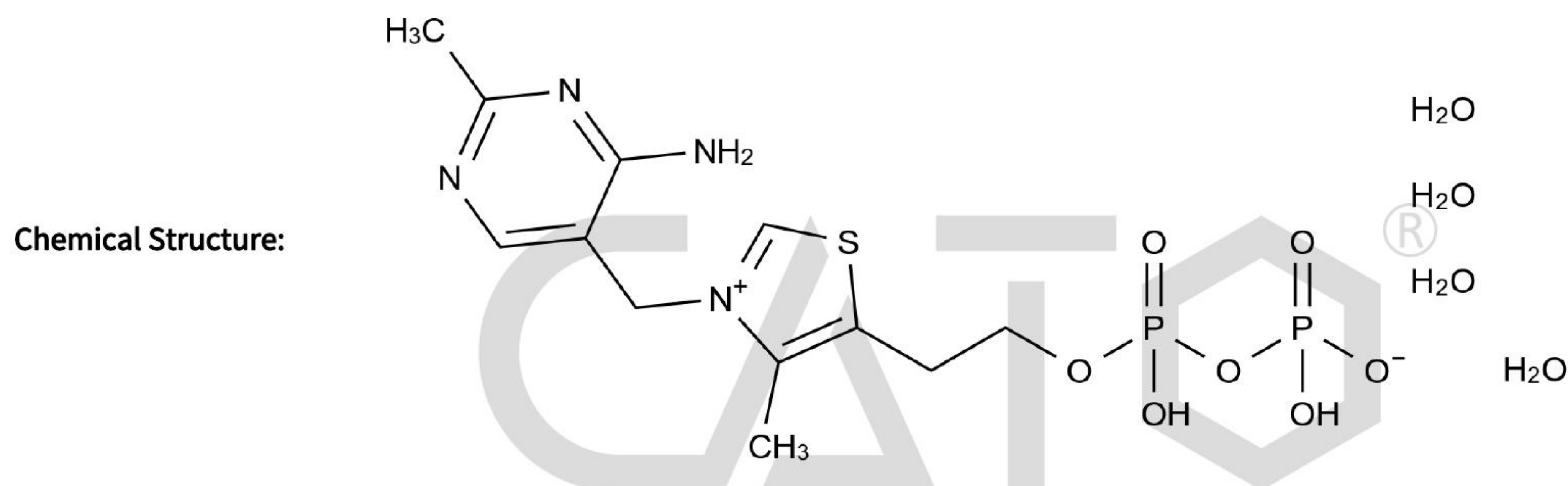


Certificate of Analysis

Reference Material & Standard

Product Name:	Cocarcboxylase Tetrahydrate	Catalogue Number:	C4X-2863
Synonyms:	N/A	Lot Number:	0714-RH-0049
CAS Number:	68684-55-9	Expiry Date:	Jul 16, 2030
Molecular Formula:	C ₁₂ H ₁₈ N ₄ O ₇ P ₂ S 4*H ₂ O	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	424.31 4*18.02	Shipping Condition:	Shipping with Ice Packs
Solubility:	Water		



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	100.000%
Water Content	Karl Fischer	15.0375%
Water Content(Free Water)		0.5167%
Assay		99.5%

Comment:

1. The content of crystal water is 14.5208%.
2. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Water Content(Free Water)}) * \text{Purity HPLC (\%)} / 100\%$$

Water Content(Free Water) is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: Jul 17, 2026

Date: Jul 17, 2026

Date: Jul 17, 2026



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

