

CERTIFICATE OF ANALYSIS

(Certificate No. KMT014019-01)

Release Date: 23/04/2026

Re-test Date: 22/04/2029

Thiamine EP Impurity E

Identification

Chemical Name :

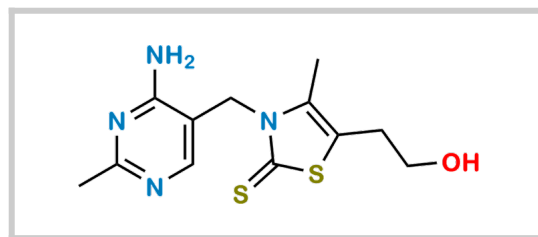
3-[(4-Amino-2-methylpyrimidin-5-yl)methyl]-5-(2-hydroxyethyl)-4-methyl-1,3-thiazol-2(3H)-thione

CAT No. : KMT014019

CAS No. : 299-35-4

Molecular Formula : C₁₂H₁₆N₄OS₂

Molecular Weight : 296.4



Analytical Information

Batch No. : THI/R&D/E/029

Description : Off White Solid

HPLC Purity : 98.64 %

Weight Loss By TGA : 0.09 %

% Potency : 98.55 %

Solubility : ACN : WATER (1:1)

Mass : Confirm

IR : Confirm

¹H NMR : Confirm

¹³C NMR : Confirm

% Potency on as is basis : 98.64 %

Additional Information

Long Term Storage : Store at 2-8 deg. C for long term storage

Shipping Condition : Product is stable to be Shipped at Room Temperature

% Potency = [100 - 0.09(Weight Loss By TGA)] x [98.64(HPLC Purity)]/100 = 98.55 %
-Re-tested on 23.04.2026

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		23/04/2026
Reviewed & Approved By	Quality Control	Jatin Patel		23/04/2026

Attachments : COA, HPLC, MASS, 1HNMR,13C NMR,IR and TGA