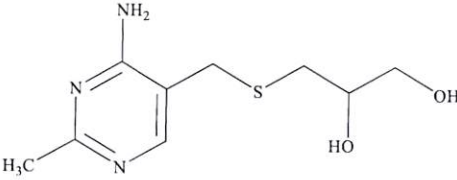


Certificate of Analysis



Certificate No.: 20260623003

Date: June 23, 2026

Retest date: June 18, 2029

Compound Name:	Thiamine Impurity 25	
Synonyms:	3-(((4-amino-2-methylpyrimidin-5-yl)methyl)thio)propane-1,2-diol	
TLC Catalogue Number:	T-8450	
CAS Number:	2169341-54-0	
Alternate CAS Number:	N/A	
Molecular Weight:	229.30	
Molecular Formula:	C ₉ H ₁₅ N ₃ O ₂ S	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	7473-047A10	
Storage Conditions:	Store at 2-8 °C	
Solubility:	Methanol, DMSO, DMF	

Test Description	Specifications	Results
Visual Description	White to off-white solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	100.0%
Impurity (HPLC)	N/A	
Water Content (KF)	N/A	0.2%
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 90.0%	99.8%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/23/2026
Approved by:	Quality Assurance		06/23/2026

Attachments: Peak Attribution Table, Assay Calculation, HPLC, IR, MS and NMR spectra.