

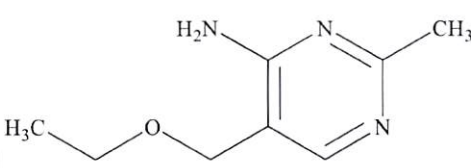


Certificate of Analysis


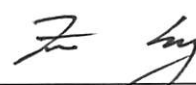
Certificate No.: 20240103019

Date: January 3, 2024

Retest date: December 27, 2026

Compound Name:	Thiamine Impurity 17	
Synonyms:	5-(ethoxymethyl)-2-methylpyrimidin-4-amine	
TLC Catalogue Number:	T-8441	
CAS Number:	73-66-5	
Molecular Weight:	167.21	
Molecular Formula:	C ₈ H ₁₃ N ₃ O	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	5985-081A2	
Storage Conditions:	Store at 2-8 °C	
Solubility:	Methanol	

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	0.1%
Residual Solvents (NMR)	0.1% acetonitrile	
Assay (%)	Not less than 90.0%	99.8%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		01/05/2024
Approved by:	Quality Assurance		01/05/2024

Attachments: HPLC, IR, MS and NMR spectra.