

# CERTIFICATE OF ANALYSIS

(Certificate No. KMT014016-01)

Release Date: 15/08/2025

Re-test Date: 14/08/2028

## Thiamine EP Impurity B (chloride Hydrochloride)

### Identification

**Chemical Name :**

3-((4-Aminopyrimidin-5-yl)methyl)-5-(2-hydroxyethyl)-4-methylthiazol-3-ium chloride hydrochloride

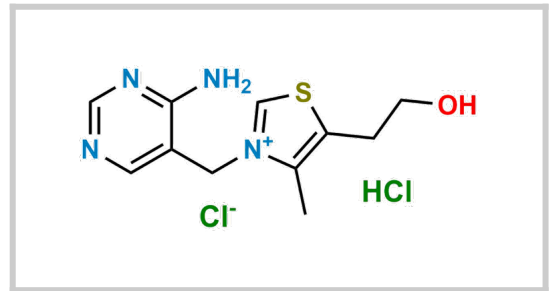
**Alt. Name** : 2'-Nor Thiamine ; Desmethylthiamine

**CAT No.** : KMT014016

**CAS No.** : 7770-93-6

**Molecular Formula** : C<sub>11</sub>H<sub>15</sub>N<sub>4</sub>O<sub>2</sub> : Cl : HCl

**Molecular Weight** : 251.3 : 35.5 : 36.5



### Analytical Information

**Batch No.** : T014016-102

**Description** : Light Yellow Powder

**HPLC Purity** : 98.05 %

**Weight Loss By TGA** : 0.24 %

**% Potency** : 97.81 %

**Solubility** : Acetonitrile :  
Water (1:1)

**Mass** : Confirm

**IR** : Confirm

**1H NMR** : Confirm

### 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 - 0.24(Weight Loss By TGA)] x [98.05(HPLC Purity)]/100 = 97.81 %

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		15/08/2025
Reviewed & Approved By	Quality Control	Jatin Patel		15/08/2025

**Attachments** : COA, HPLC, MASS, 1HNMR, IR and TGA