

# CERTIFICATE OF ANALYSIS

(Certificate No. KMT014016-02)

Release Date: 24/05/2024

Re-test Date: 23/05/2027

## Thiamine EP Impurity B

### Identification

**Chemical Name :**

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

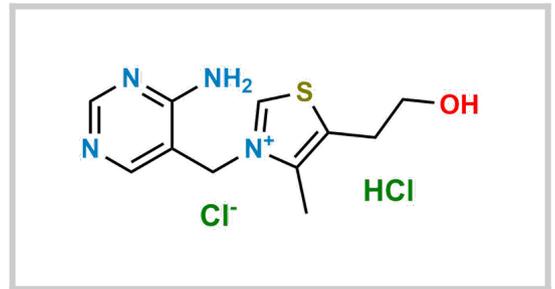
**Alt. Name** : 2'-Nor Thiamine ; Desmethylthiamine

**CAT No.** : KMT014016

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

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

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



### Analytical Information

**Batch No.** : THI/R&D/B/021

**Description** : Yellow Solid

**HPLC Purity** : 96.90 %

**Weight Loss By TGA** : 3.19 %

**% Potency** : 93.81 %

**Solubility** : DMSO

**Mass** : Confirm

**IR** : Confirm

**<sup>1</sup>H 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 - 3.19(Weight Loss By TGA)] x [96.90(HPLC Purity)]/100 = 93.81 %

-Re-tested on 24.05.2024

**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		11/02/2026
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		11/02/2026

**Attachments** : COA, HPLC, MASS, <sup>1</sup>HNMR, IR and TGA