

Certificate of Analysis

Reference Material & Standard

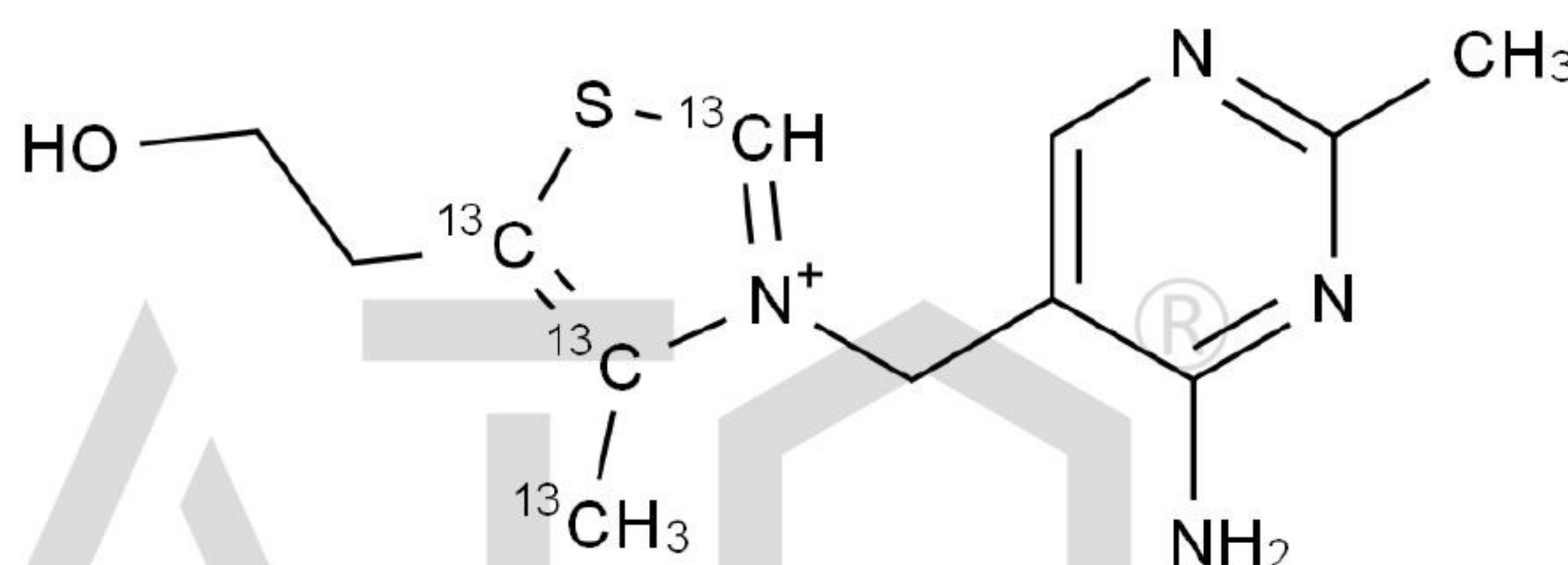
Product Name:	Thiamine Hydrochloride-13C4	Catalogue Number:	CCFD201738
Synonyms:	N/A	Lot Number:	0717-RH-0019
CAS Number:	1257525-77-1	Expiry Date:	Mar 24, 2030
Molecular Formula:	C ₈ [13C] ₄ H ₁₇ N ₄ OS HCl Cl	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	269.33 36.46 35.45	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:

Cl⁻ HCl



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Chemical Purity	HPLC	98.6%
Isotopic Purity		99.1%
Uncertainty		±0.3%

Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Lisa

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Jul 21, 2026

Date: Jul 22, 2026

Date: Jul 22, 2026



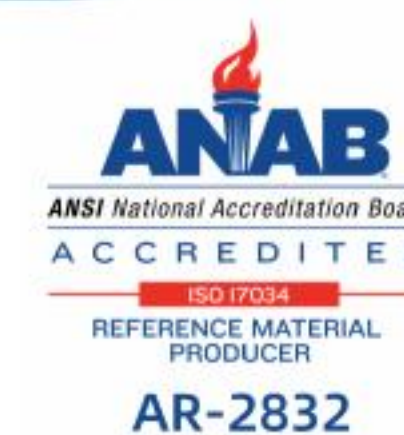
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