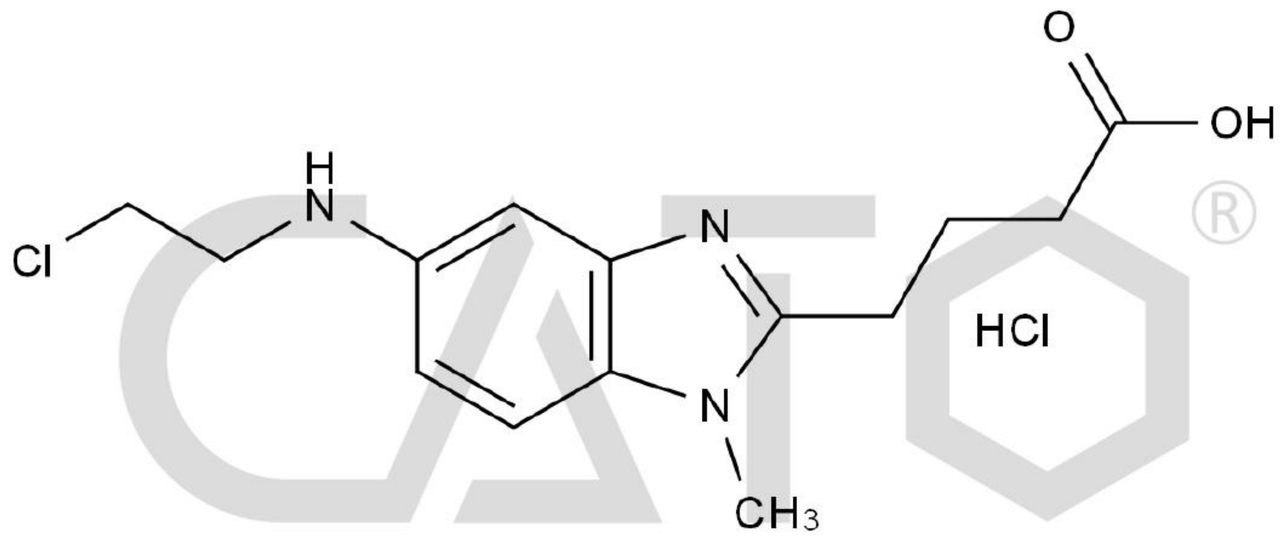
Certificate of Analysis

Reference Material & Standard

Product Name:	Bendamustine USP Related Compound D	**Catalogue Number:**	C4X-12718
Synonyms:	N/A	**Lot Number:**	1103-RH-0073
CAS Number:	1797881-48-1	**Expiry Date:**	Nov 09, 2030
Molecular Formula:	$C_{14}H_{18}ClN_3O_2$ HCl	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	295.76 36.46	**Shipping Condition:**	Shipping at Room Temperature
		Warning:	

Chemical Structure:



CATO Research Chemicals Inc.

Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	95.347%
Loss on Drying	TGA	2.4185%
Assay	Mass Balance	93.0%

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Loss on Drying) * Purity HPLC (%) /100%*
Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Reviewed by: Approved by General Manager:

Date: Nov 16, 2026 Date: Nov 16, 2026 Date: Nov 16, 2026