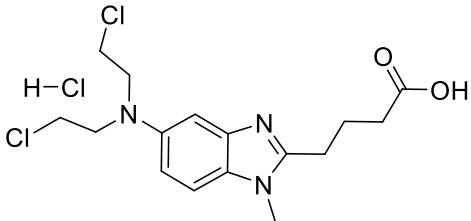




Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
200470	Bendamustine HCl	Lot#:YYP30729

Chemical name	
4-[5-[bis(2-chloroethyl)amino]-1-methylbenzimidazol-2-yl]butanoic acid hydrochloride	
Synonyms	
SDX105; SDX 105; SDX-105; DD6304600; Bendamustine HCl; Bendamustine hydrochloride; Brand name: Treanda.	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 200470 Name: Bendamustine HCl CAS#:3543-75-7 Lot#:YYP30729 Chemical Formula: C ₁₆ H ₂₂ Cl ₃ N ₃ O ₂ Molecular Weight: 394.72 <i>Bendamustine (free base)</i> Chemical Formula: C ₁₆ H ₂₁ Cl ₂ N ₃ O ₂ Exact Mass: 357.10108; Molecular Weight: 358.26

Analysis item	Specifications / Results
Appearance	White to off-white solid powder
Structure	¹ H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature.
Purity (HPLC)	>99.0%
Solubility	DMSO 79 mg/mL; Water 15 mg/mL; Ethanol 17 mg/mL
Conclusion	This product conforms with MedKoo's quality standards
Shipping condition	Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs.
Storage condition	Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition
Shelf life	At least 5 years if properly stored.

CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE