## Certificate of Analysis

## Bendamustine

| Cat. No.: | HY-13567 |
| :--- | :--- |
| CAS No.: | $16506-27-7$ |
| Batch No.: | 268921 |

Chemical Name: $\quad 1$ H-Benzimidazole-2-butanoic acid, 5 -[bis(2-chloroethyl)amino]-1-methyl-

## PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:
Molecular Weight:
Storage:
$\mathrm{C}_{16} \mathrm{H}_{21} \mathrm{Cl}_{2} \mathrm{~N}_{3} \mathrm{O}_{2}$
358.26
$-20^{\circ} \mathrm{C}$, protect from light

* In solvent : $-80^{\circ} \mathrm{C}, 6$ months; $-20^{\circ} \mathrm{C}, 1$ month (protect from light)

Chemical Structure:


ANALYTICAL DATA

| Appearance: | White to off-white (Solid) |
| :--- | :--- |
| ${ }^{1}$ H NMR Spectrum: | Consistent with structure |
| MS: | Consistent with structure |
| Purity (HPLC): | $99.54 \%$ |
| Conclusion: | The product has been tested and complies with the given specifications. |

Caution: Product has not been fully validated for medical applications. For research use only.

