

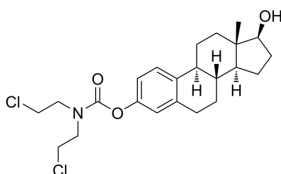
## Estramustine

Cat. No.: HY-103711  
CAS No.: 2998-57-4  
Batch No.: 321116  
Chemical Name: Estra-1,3,5(10)-triene-3,17-diol (17 $\beta$ )-, 3-[bis(2-chloroethyl)carbamate]

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: C<sub>23</sub>H<sub>31</sub>Cl<sub>2</sub>NO<sub>3</sub>  
Molecular Weight: 440.40  
Storage: 4°C, protect from light  
\* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

### Chemical Structure:



### ANALYTICAL DATA

Appearance: White to off-white (Solid)  
<sup>1</sup>H NMR Spectrum: Consistent with structure  
LCMS: Consistent with structure  
Purity (LCMS): 98.74%  
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.**

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