

## PEG-bis-amine (MW 20000)

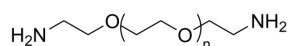
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Cat. No.: HY-140649  
CAS No.: 24991-53-5  
Batch No.: 291188  
Chemical Name: Poly(oxy-1,2-ethanediyl),  $\alpha$ -(2-aminoethyl)- $\omega$ -(2-aminoethoxy)-

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:  $(C_2H_4O)_n C_4H_{12}N_2O$   
Molecular Weight: 20000(Average)  
Storage: Powder -20°C 3 years  
In solvent -80°C 6 months  
-20°C 1 month

### Chemical Structure:



### ANALYTICAL DATA

Appearance: White to off-white (Solid)  
<sup>1</sup>H NMR Spectrum: Consistent with structure  
Purity (NMR):  $\geq 98.0\%$   
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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