

## Endomorphin 1

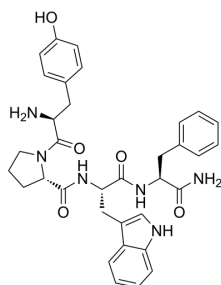
Cat. No.: HY-P0185  
CAS No.: 189388-22-5  
Batch No.: 245499  
Chemical Name: L-Phenylalaninamide, L-tyrosyl-L-prolyl-L-tryptophyl-

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:  $C_{34}H_{38}N_6O_5$   
Molecular Weight: 610.70  
Storage: Sealed storage, away from moisture and light, under nitrogen  
Powder -80°C 2 years  
-20°C 1 year

\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

### 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): 99.92%  
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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