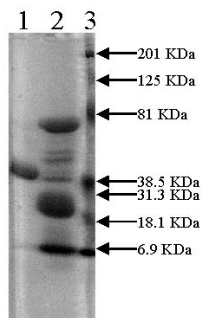


## Molecular Innovations, Inc.

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# Certificate of Analysis



10% SDS-PAGE - GelCode Blue Stain  
1 CPAI-803 (3 ug) Reduced  
2 CPAI-803 (3 ug)+uPA-HTC (12 ug) Reduced  
3 Prestained Standard

**Product:** CPAI – Human Plasminogen Activator Inhibitor I (Stable Mutant)

**Date:** 13 August, 2003      **Lot:** CPAI-803

**Molecular Weight:** 43,000 by SDS PAGE

### Physical Specifications:

Physical Appearance: colorless frozen solution

Solubility: > 2 mg/mL and < 5 mg/mL

### Spectrophotometric Data:

Ultraviolet: Absorbance (280nm) = 2.5     $\epsilon^{0.1\%} = 1.0$   
Concentration = 2.5 mg/mL  
Active Concentration = 2.5 mg/ml

### Kinetic Data:

Second order rate constants for inhibition of:

**uPA =  $5.1 \times 10^6 \text{ M}^{-1}\text{s}^{-1}$**       **tPA =  $7.9 \times 10^5 \text{ M}^{-1}\text{s}^{-1}$**

### Considerations:

Storage Conditions: Store frozen at -70°C – stability > 1yr  
Buffer Composition: 0.05 M Sodium Phosphate; 0.1 M NaCl; 1mM EDTA pH 6.6  
Other: > 99% pure by SDS PAGE    98% active by uPA titration  
Half-life at 37°C, pH 7.4 is ~160 hours

*Duane E. Day*

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