

**DATA SHEET**

<b>Product Name:</b>	Chymotrypsin, human pancreas
<b>Catalog #:</b>	A-2005
<b>Molecular Mass:</b>	25,000 kDa
<b>Appearance:</b>	Salt-free lyophilized solid
<b>Storage:</b>	Freezer
<b>Activity:</b>	40-70 units per mg protein. One unit is defined as the amount of enzyme that hydrolyzes one umole of Suc-Ala-Ala-Pro-Phe-pNA per minute at 25°C, pH 8.0
<b>Purity:</b>	>=95% by SDS-PAGE
<b>Handling:</b>	Store in Tightly Sealed Vial.

**Description:**

Chymotrypsin-like proteasome activities were found to increase in cells treated with 10–100 µM 6-OHDA, while “higher doses caused a marked decline”<sup>1</sup>. Such harsh oxidative attacks might cause failure of the ubiquitin-proteasome system (UPS) which leads to protein aggregation and cell death. “Mutations in familial PD have been associated with the failure of protein degradation through UPS”.

**References:**

1. Elkon, H. et al., (2004), J. Molecular Neuroscience 24(3):387-400.

**Note:** Prepared from plasma shown to be non reactive for HbsAG, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.

**For research use only. Not for use in humans.**

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