

DATA SHEET

Product Name: Chymotrypsin, Human Pancreas

Catalog #: A-2005

Molecular Mass: 25,000 Da

Protein Purity: >95% by SDS-PAGE

Handling: Store in Tightly Sealed Vial

Appearance: Salt-free lyophilized solid

Storage: -20°C / Freezer

Activity: 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

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” 1. 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.

Notes: 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.