

LoToxTM Natural Der p 1

Product Code: LTN-DP1-1

Allergen: nDer p 1 (*Dermatophagoides pteronyssinus* allergen 1)

Lot No: **xxxxx**

Source: *D.pteronyssinus* culture medium

Mol. Wt: 24 kD

Purification: From mite culture by multi-step chromatographic purification.
Purity on silver stained SDS-PAGE >95%.

Concentration: (See package insert) based on OD280. Extinction coefficient = 1.49



nDer p 1

Formulation: Preservative and carrier-free in sterile, endotoxin-free, phosphate buffered saline, pH 7.4

Storage: Store at -20°C. Avoid repeated freeze-thaw cycles.

Notes: A LoToxTM product: Endotoxin < 0.03EU/μg.
Cysteine protease activity (see product insert) RFU @ 0.25μg/ml concentration.

For Research Use Only: Not for Diagnostic or Therapeutic Use

REFERENCES:

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2. Hewitt CRA, Brown AP, Hart BJ, Pritchard DL. A major house dust mite allergen disrupts the Immunoglobulin E network by selectively cleaving CD23: innate protection by antiproteases. *J Exp Med* 1995;182:1537-1544.
3. Schultz O, Laing P, Sewell HF, Shakib F. Der p 1, a major allergen of the house dust mite, proteolytically cleaves the low affinity receptor for human IgE (CD23). *Eur J Immunol* 1995;25:3191-3194.
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5. Gough L, Schultz O, Sewell HF, Shakib F. The cysteine protease activity of the major house dust mite allergen Der p 1 selectively enhances the immunoglobulin E antibody responses. *J Exp Med* 1999; 190:1897-1901.
6. Wan H, Winton HL, Soeller C, Tovey ER, Gruenert DC, Thompson PJ, Stewart GA, Taylor GW, Garrod DR, Cannell MD, Robinson C. Der p 1 facilitates transepithelial allergen delivery by disruption of tight junctions. *J Clin Invest* 1999; 104:123-133.
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