

Recombinant Der p 1 DG

Product Code: RP-DP1D-1

Allergen: rDer p 1 (*Dermatophagoides pteronyssinus* allergen 1) deglycosylated

Lot No: **XXXXX**

Source: *Pichia pastoris*
(clone N52Q, N-glycosylation site N52 mutated)

Mol. Wt: 24 kD

Purification: Purified from *Pichia pastoris* culture by affinity chromatography. Purity on silver stained SDS-PAGE >95%.

Concentration: See product insert.

Formulation: Preservative and carrier-free in 0.1 M CAPS Buffer, pH 9.5.
Filtered through 0.22 µm filter.

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

Notes:

1. Mature form of rDer p 1; proregion removed with acid dialysis.
2. Cysteine protease activity (DTT dependent) >360 RFU @ 0.25µg/ml.
3. For stability purposes the product is shipped in CAPS buffer, pH 9.5. It may be dialysed or diluted into a physiological buffer for cell culture purposes, but long term storage in PBS may cause precipitation.



rDer p 1 deglycosylated

Allergens are provided for research and commercial use in vitro:
Not for human in vivo or therapeutic use.

REFERENCES:

1. 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.
2. 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.
3. King C, Brennan S, Thompson PJ, Stewart GA. Dust mite proteolytic allergens induce cytokine release from cultured airway epithelium. *J Immunol* 1998; 161:3645-3651.
4. 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.
5. Best BE, Stedman KE, Bozic CM, Hunter SW, Vailes LD, Chapman MD, McCall CA, McDermott MJ. A recombinant group 1 house dust mite allergen, rDer f 1, with biological activities similar to those of the native allergen. *Prot Exp Pur* 2000;20:462-71.