

LoTox™ Recombinant Fel d 1 DG

Product Code: LTR-FD1D-1

Allergen: rFel d 1 (*Felis domesticus* allergen 1)

Lot No: **XXXXX**

Source: *Pichia pastoris*
(clone N103Q, N-glycosylation site N103 mutated)

Mol. Wt: 17 kD

Purification: Purified from *Pichia pastoris* culture by multi-step column chromatography. Purity approx. 95% by SDS-PAGE. (See Panel).

Concentration: See product insert.

Formulation: Preservative and carrier-free in endotoxin free phosphate buffered saline, pH 7.4. Filtered through 0.22µm filter.

Storage: Store at -20°C



Notes:

1. N-glycosylation motif at position 103 was mutated (N103Q).
2. Upper band represents rFel d 1 dimer.
3. Fel d 1 chain 1 and chain 2 are fused by a 19 aa peptide linker (Ref.1).
4. A LoTox™ product, Endotoxin < 0.02 EU/µg.

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

REFERENCES:

1. Vailes LD, Sun AW, Ichikawa K, Wu Z, Sulahian TH, Chapman MD, Guyre PM. High-level expression of immunoreactive recombinant cat allergen (Fel d 1): Targeting to antigen-presenting cells. *J Allergy Clin Immunol* 2002;110: 757-62.
2. Hulse KE, Reefer AJ, Engelhard VH, Satinover SM, Patrie JT, Chapman MD, Woodfolk JA. Targeting Fel d 1 to FcγRI induces a novel variation of the Th2 response in subjects with cat allergy. *J Allergy Clin Immunol* 2008;121:756-762.
3. Kaiser L, Velickovic TC, Badia-Martinez D, Adedoyin J, Thunberg S, Hallén D, Berndt K, Grönlund H, Gafvelin G, van Hage M, Achour A. Structural characterization of the tetrameric form of the major cat allergen Fel d 1. *J Mol Biol* 2007; 370: 714-727.
4. Wünschmann S, Vailes LD, King E, Albeerse RC, Chapman MD. Expression of a Deglycosylated Recombinant Fel d 1 in *Pichia pastoris*. *J Allergy Clin Immunol* 2008; 121(2): S214.