



## Recombinant Bla g 2

**Product Code: RP-BG2-1**

Allergen: rBla g 2 (*Blattella germanica* allergen 2)

Lot No: XXXXX

Source: *Pichia pastoris*  
(clone NIG rBla g 2, glycosylation site N93Q mutated)

Mol. Wt: ~37 kD

Purification: Purified from *Pichia pastoris* culture supernatant by monoclonal antibody affinity chromatography. Purity by silver stained SDS-PAGE > 95%. (See Panel).

Concentration: See product insert.

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

Storage: Store at -20°C

Notes: (1) One glycosylation site was removed in this recombinant leaving two glycosylation sites. The recombinant is glycosylated and has a slightly higher MW than natural. Bla g 2 (36kD).  
(2) This recombinant form was used to determine the crystal structure of Bla g 2.



rBla g 2

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

### REFERENCES:

1. Arruda LK, Vailes LD, Mann BJ, Shannon J, Fox JW, Vedvick TS, Hayden ML, Chapman MD. Molecular Cloning of a major cockroach (*Blattella germanica*) allergen, Bla g 2: Sequence homology to the aspartic proteases. J Biol Chem 1995;270:19563-8.
2. Wünschmann S, Gustchina A, Chapman MD, Pomés A. Cockroach allergen Bla g 2: An unusual aspartic proteinase. J Allergy Clin Immunol 2005;116:140-5.
3. Gustchina A, Li M, Wünschmann S, Chapman MD, Pomés A, Wodawer A. Crystal structure of cockroach allergen Bla g 2, an unusual zinc binding aspartic protease with a novel mode of self-inhibition. J Mol Biol 2005;348:433-44.
4. Pomés A, Chapman MD, Vailes LD, Blundell TL, Venugopal D. Cockroach allergen Bla g 2: Structure function and implication for allergic sensitization. Amer J Resp Crit Care Med 2002;165:391-7.