

## Natural Bet v 1

## Product Code: NA-BV1-1

Allergen:	nBet v 1 ( <i>Betula pendula</i> allergen 1)	
Lot No:	XXXXX	-
Source:	<i>B</i> irch pollen ( <i>Betula pendula</i> )	
Mol. Wt:	18 kDa	
Purification:	From birch pollen extract by multi-step chromatography. Purity > 95 % by silver stained SDS-PAGE	-
Concentration:	See product insert.	
Formulation:	Preservative-free and carrier-free in phosphate buffered saline, pH 7.4. Sterile filtered.	nBet v 1
Storage:	Store at -20°C. Avoid repeated freeze-thaw cycles.	
Note:	Purified natural Bet v 1 appears as a triplet of 18-20kD proteins representing distinct isoforms of Bet v 1 $(1)$ .	

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

## **REFERENCES:**

- 1. Batard, T. et al: Characterization of wild-type recombinant Bet v 1a as a candidate vaccine against birch pollen allergy. Int Arch Allergy Immunol 2005, 136 (3), 239-249.
- 2. Breiteneder, H.et al: The gene coding for the major birch pollen allergen Bet v 1, is highly homologous to a pea disease resistance response gene. EMBO J 1989, 8 (7), 1935-1938.
- 3. Spangfort, M. D.et al: Dominating IgE-binding epitope of Bet v 1, the major allergen of birch pollen, characterized by X-ray crystallography and site-directed mutagenesis. J Immunol 2003, 171 (6), 3084-3090.
- 4. Swoboda, I.et al: Isoforms of Bet v 1, the major birch pollen allergen, analyzed by liquid chromatography, mass spectrometry, and cDNA cloning. J Biol Chem 1995, 270 (6), 2607-2613.
- S. Vieths et al.: Establishment of recombinant major allergens Bet v 1 and Phl p 5a as Ph. Eur. Reference standards and validation of ELISA methods for their measurement. Pharmeuropa Bio & SN 2012; 118-13.