

Recombinant Betula pendula Bet v 1 Protein, His-tagged

Cat. No. Bet v 1-09B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Betula verrucosa (European white birch) allergen 1-A with a C-terminal His-tag produced in Nicotiana benthamiana by Agrobacterium-mediated transient expression.
Species	Betula pendula
Source	Nicotiana Benthamiana
Description	Birch trees (Betula), are found in the temperate climate zone of the northern hemisphere and release large amounts of pollen during spring, a major cause of allergic rhinitis in Europe. A 17 kDa protein called Bet v 1-A is the major allergen of birch pollen. It has been shown that in birch-rich areas of Scandinavia, >95% of birch pollen allergic patients have immunoglobulin E (IgE)-binding to Bet v 1. Three regions on the surface of the protein contain cross-reactive B-cell epitopes that provide structural basis for similar allergic symptoms when encountering pollens from related trees such as hazel and alder.
Form	Lyophilized
Molecular Mass	18.6 kDa
Purity	98%
Storage	Lyophilized materials are stable for up to twelve months from date of receipt at -70 centigrade.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

It is recommended that reconstituted protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Storage Buffer 50 mM HEPES pH7.5, 100 mM NaCl, 175 mM Trehalose Dihydrate.

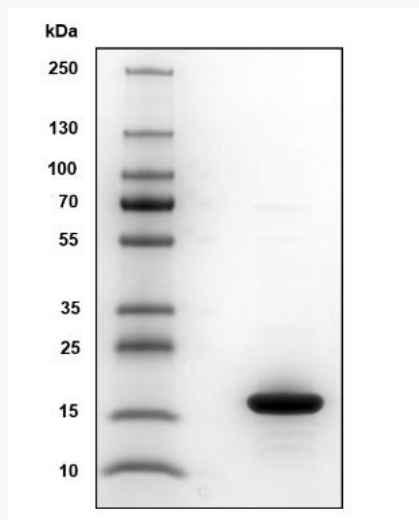
GENE INFORMATION

Official Symbol BETVIA

Synonyms BETVIA; Major pollen allergen Bet v 1-A; BETVI; Allergen Bet v I-A; Allergen: Bet v 1-A

UniProt ID P15494

SDS-PAGE



Reducing 4-20% SDS-PAGE analysis of 5 µg Bet v 1-A.

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