ALEXgenius - The extended IgE profile Expert System

Phl p 5

a_phlp5.pdf

Characteristics of the component

Origin (Linnean)	Phleum pratense
Origin (English)	Phleum
Link to the web	http://www.allergenius.it/doc/phleum.pdf
Family	Not classified
Link to the web	
Sub-family	Not classified
Link to the web	
Natural / Recombinant	Recombinant
Type	Inhalant
Biochemistry	Group 5 grass
Chemistry	Group 5 grass
Reactivity	Genuine (specific)
Cross/pan component	No
Food	No

MW	32K
Aminoacids	286

ADLGYGPATPAAPAAGYTPATPAAPAGAD
AAGKATTEEQKLIEKINAGFKAALAGAGVQ
PADKYRTFVATFGPASNKAFAEGLSGEPK
GAAESSSKAALTSKLDAAYKLAYKTAEGAT
PEAKYDAYVATLSEALRIIAGTLEVHAVKPA
AEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKFTVFEAAFNDEIKASTGGAYESY
KFIPALEAAVKQAYAATVATAPEVKYTVFE
TALKKAITAMSEAQKAAKPAAAATATATAA
VGAATGAATAATGGYKV

Acidity Susceptibility	Not relevant
Heat Susceptibility	Not relevant
Digestion Susceptibility	Not relevant

Allergenicity

95% of grass pollen-allergic patients (98 tested) showed IgE binding to Phl p 5 in immunoblot of pollen extract; 97/98 subjects showed IgE binding to rPhl p 5 on nitrocellulose filters. - all patients (11) with positive skin prick test responses to grass pollen allergens reacted to the C-terminal, and 73% react to the N-terminal peptide of Phl p 5a. - Purified rPhl p 5 elicited dose-dependent basophil histamine release in 1 patient tested, and immediate type skin reactions in 4 patients test