Canf4 Protein, Canine (HEK293, His)

Cat. No.:	HY-P77310
Synonyms:	Allergen Can f 4
Species:	Canine
Source:	HEK293
Accession:	NP_001177855.1 (Q17-E174)
Gene ID:	100463491
Molecular Weight:	Approximately 19 kDa.

PROPERTIES

AA Sequence	Q L P L P N V L T Q V S G P W K T L Y I S S N N L D K I G D N G P F R I Y M R G I N V D I P R L K M S F N F Y V K V D G E C V E N S V G A S I G R D N L I K G E Y N G G N Y F R I I D M T P N A L I G Y D V N V D S K G K I T K V A L L M G R G A H V N E E D I A K F K K L S R E K G I P E E N I I Y L G D T D N C P N H E
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris, 100 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Dog dander is a common cause of respiratory allergy, with symptoms including rhinitis, conjunctivitis and bronchial asthma. Extracts of dog hair and dander contain a complexity of allergenic and non-allergenic proteins. To date, the IgE reactivity of 4 dog allergens of the lipocalin protein family, Canf1, Canf2, Canf4, and Canf6, as well as the dog serum albumin Canf3 and the dog prostatic kallikrein Canf5, has been characterized in detail. The size and the amino acid composition of the ligand-binding pocket indicate that Canf4 is capable of binding only relatively small hydrophobic molecules which are different from those that Canf2 is able to bind. The crystal structure of Canf4 contained both monomeric and dimeric forms of the allergen, suggesting that Canf4 is able to form transient (weak) dimers. The dimeric structure of Canf4 is formed when the ends of four β-strands are packed against the same strands from the second monomer[1][2].

Caution: Product has not been fully validated for medical applications. For research use only.

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