
Product Data Sheet

Product Name: Der P1
 Cat. No.: GP25128
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Peptidase 1; Major mite fecal allergen Der p 1; Allergen Der p I; Der p 1; DERP1; Der-P1.		
Amino Acid Sequence	MSIKTFEEYKKA FNKSYATFEDEEAARKNFLESVKYVQSNGGAINHLSDSLDEFK NRFLMSAEAFEHLKTQFDLNAETNACSINGNAPAEIDLRQMRTVTPIRMQGGCGSAWAFS GVAATESAYLAYRNQSLDLAEQELVDCASQHGCHGDTIPRGIEYIQHNGVVQESYYRYVA REQSCRRPNAQRFGISNYCQIYPPNVNKIREALAQT HSAIAVIIGIKDLDAFRHYDGRTI IQRDNGYQPNYHAVNIVGYSNAQGV DYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPY VVILHHHHHH.		

Formulation(1mg/ml) 60mM NaCl, 50mM Tris-HCl pH 8.0 and 1.2M Urea.

Introduction

DERP1 is a thiol protease, with a preference for substrates with a large hydrophobic side chain in the P2 position, or with basic residues. DERP1 is a C1 peptidase family member. DERP1 has extensive endopeptidase specificity. DERP1 is N-glycosylated. N-glycanase treatment does not completely remove carbohydrates, suggesting that the protein contains additional glycosylation sites. DERP1 causes an allergic reaction in humans. Common symptoms of mite allergy are bronchial asthma, allergic rhinitis and conjunctivitis. DERP1 binds to IgE in 80% of patients with house dust allergy.

Stability

Der-P1 although stable at 4°C for 1 week, should be stored below -18°C .Please prevent freeze thaw cycles.

Background

The E.Coli derived recombinant protein contains the Dermatophagoides pteronyssinus Dust Mite Der P1 protein (a.a. 20-320) and fused to a 6 His Tag at C-terminus, having a total Mw of 34.5kDa, pI 5.6.

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

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