

Product Data Sheet

Recombinant purified Dau c1 Allergen (Daucus carota, carrot allergen 1, isoform Dau c1)

Cat# DAUC15-R-100

Size: 100 ug

Protein name Major allergen Dau c 1
Synonyms CR16; Pathogenesis-related protein Gea20

Description

Dau c 1.2 is a lyophilized, recombinant protein with IgE-binding capacity. It was produced by heterologous expression in *E. coli*, purified by conventional biochemical methods. The product was lyophilized in 5 mM NH₄HCO₃, containing 1% sucrose

Protein accession# EMBL: Z81361/Swissprot: O04298

MW: ~17,339 Dalton

Purity: > 99%

Concn: 1 mg/ml (lot sp concn specified on the vial)

Quality control:

Purity has been determined by SDS-PAGE and staining with Coomassie Brilliant Blue R-250. Dau c 1.2 Lot# 01 tested positive in an IgE-Immunoblot with a standardized pool of human Dau c 1.2-reactive sera.

Form and Storage

The lyophilized product can be kept at room temperature for at least 3 weeks. However, we recommend the product to be stored at -20°C. Under these conditions the quality of the material will be maintained for several years. The stability at 4°C should be at least 6 months. Reconstituted protein can be stored at -20°C.

Suggested Uses / Reconstitution

The material can be reconstituted with water or diluted buffers. If reconstituted with water or buffers (2mM β-Mercaptoethanol) to 2 mg/ml, the sucrose concentration will be approx. 30 mM. If reconstituted with water or buffers (2mM β-Mercaptoethanol) to 2mg/ml, the product is soluble to approx. 98%. Thorough physical suspension of the protein is essential. Alternatively the product can be dissolved in 6M Urea, 1mM β-Mercaptoethanol. The urea solution can be dialyzed against a suitable buffer (20mM Tris/HCl pH 8.0, 1mM β-Mercaptoethanol) without precipitation of protein.

Country of Origin: USA

MSDS:

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, diagnostic, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals.

References: Hoffmann-Sommergruber K (1999) Clin. Exp. Allergy 29:840-847(1999); Yamamoto M (1997) Plant Cell Physiol. 38:1080-1086(1997); Lin X. (1996) Submitted (JAN-1996) to the EMBL/GenBank/DDBJ databases.

*This product is for in vitro research use only.
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