
Product Data Sheet

Product Name: NACA Human
 Cat. No.: GP23999
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Nascent polypeptide-associated complex alpha subunit; NACA1; NAC-alpha; alpha-NAC; Allergen Hom s 2.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MPGEATETVP ATEQELPQPQ AETGSGTESD SDESVPLEEE QDSTQATTQQ AQLAAAAEID EEPVSKAKQS RSEKKARKAM SKLGLRQVTG VTRVTIRKSK NILFVITKPD VYKSPASDTY IVFGAEKIED LSQQAQLAAA EKFKVQGEAV SNIQENTQTP TVQEESEEEE VDETGVEVKD IELVMSQANV SRAKAVRALK NNSNDIVNAI MELTM		
Formulation	The NACA solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 20% glycerol.		

Introduction

NACA belongs to the nascent polypeptide associated complex (NAC) alpha subunit family which takes part in inhibiting unsuitable targeting of non-secretory polypeptides to the endoplasmic reticulum (ER). NACA proteins are usually restricted to the nucleus and cytoplasm and hold NAC-A/B (NAC-alpha/beta) and UBA (ubiquitin-associated) domains. The UBA domain is related to proteins which takes part in the ubiquitin-proteasome pathway for protein degradation.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

NACA Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 235 amino acids (1-215) and having a molecular mass of 25.5

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

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kDa.NACA is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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