
Product Data Sheet

Product Name: Calumenin Human, His
 Cat. No.: GP22961
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CALU; Crocalbin; IEF SSP 9302; FLJ90608; Calumenin.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSHMKPTEKKDRV HHEPQLSDKV HNDAQSFDYD HDAFLGAEAA KTFDQLTPEE SKERLGKIVS KIDGDKDGFV TVDELKDWIK FAQKRWIYED VERQWKGHDL NEDGLVSWE EYKNATYGYVL DDPDPDDGFN YKQMMVRDER RFKMADKDGD LIATKEEFTA FLHPPEYDYM KDIVVQETME DIDKNADGFI DLEEYIGDMY SHDGNTDEPE WVKTEREQFV EFRDKNRDGG MDKEETKDWI LPSDYDHAEA EARHLVYESD QNKDGKLTKE EIVDKYDLFV GSQATDFGEA LVRHDEF.		
Formulation	The Calumenin protein contains 20mM Tris-HCl buffer pH-8 and 10% glycerol.		

Introduction

Calumenin is a calcium-binding protein located in the endoplasmic reticulum (ER) and sarcoplasmic reticulum (SR) of mammalian tissues which plays a role in ER functions as protein folding and sorting. Calumenin belongs to a family of multiple EF-hand proteins (CERC) that include reticulocalbin, ERC-55, and Cab45 and the product of this gene. Calumenin binds 7 calcium ions having low affinity and takes part in such ER functions as protein folding and sorting.

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

Recombinant Human Calumenin produced in E.Coli is a single, non-glycosylated

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

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polypeptide chain containing 317 amino acids (20-315 a.a) and having a molecular mass of 37.2 kDa. Calumenin is fused to a 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

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