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# Product Information

## NativeExtract™ Human CAV1 Membrane Protein (Full length, Super Nanodisc)

Cat. No.: **S01YF-1023-KX458**
This product is for research use only and is not intended for diagnostic use.

This product is recombinant Human CAV1 protein in native nanodisc form. The synthetic compound we developed can solubilize the CAV1 protein from membrane while retaining the native structure.

## Product Specifications

**Host Species**
Human

**Target Protein**
CAV1

**Protein Length**
Full length

**Molecular Weight**
20.3 kDa

**Sequence**
Accession # Q03135

## Product Description

**Activity**
Yes

**Application**
ELISA; SPR Binding Assays; Phage Display Screening; Immunity; Functional Assays

**Expression Systems**
HEK293 expression system

**Tag**
Flag tag at the C-terminus

**Protein Format**
Native Nanodisc

**Form**
Liquid

**Buffer**

20 mM Tris-HCl, 150 mM NaCl, pH 8.0

**Storage**

The product should be stored at -20°C to -80°C.

## Target

**Target Protein**

CAV1

**Full Name**

Caveolin 1

**Introduction**

The scaffolding protein encoded by this gene is the main component of the caveolae plasma membranes found in most cell types. The protein links integrin subunits to the tyrosine kinase FYN, an initiating step in coupling integrins to the Ras-ERK pathway and promoting cell cycle progression. The gene is a tumor suppressor gene candidate and a negative regulator of the Ras-p42/44 mitogen-activated kinase cascade. Caveolin 1 and caveolin 2 are located next to each other on chromosome 7 and express colocalizing proteins that form a stable hetero-oligomeric complex. Mutations in this gene have been associated with Berardinelli-Seip congenital lipodystrophy. Alternatively spliced transcripts encode alpha and beta isoforms of caveolin 1.

**Alternative Names**

CGL3; PPH3; BSCL3; LCCNS; VIP21; MSTP085; caveolin-1; caveolin 1, caveolae protein, 22kDa; cell growth-inhibiting protein 32; CAV1; Caveolin 1

**Gene ID**

857

**UniProt ID**

Q03135

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