



## Collagen-IV Protein, Bovine Placenta

### Product Data Sheet

Cat. No.:	A12678250	A12678500	A126781MG
Size:	250 µg	500 µg	1 mg

#### Description:

Bovine Collagen-IV is a natural protein purified from bovine placenta. Collagen-IV is purified by proprietary chromatographic techniques.

#### Summary:

Collagen, a major component of the extracellular matrix, is a fibrous protein that provides tensile strength to tissues giving them structural integrity. Collagens contribute to mechanical properties, organization, and shape of tissues. Collagen is the most widely used extracellular matrix (ECM) protein for cell culture, facilitating cell attachment, growth, differentiation, migration, and tissue morphogenesis.

Type IV collagen is a major component of the basement membrane, which is the specialized sheet-like ECM of multicellular tissues that exists around certain cell types (e.g., skeletal muscle cells, smooth muscle cells, heart muscle cells, and adipocytes).

#### Source:

Bovine placenta.

#### Purity:

Greater than 90.0%

#### Physical Appearance:

Filtered white lyophilized (freeze-dried) powder.

#### Formulation:

Collagen-IV was lyophilized without additives.

update.: 072021

#### Ilex Life Sciences LLC

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**Reconstitution:**

We recommend to reconstitute the lyophilized Collagen-IV in 20 mM acetic acid not less than 1 mg/ml, which can then be further diluted to other aqueous solutions.

**Shipping:**

Shipped at ambient temperature. Upon receipt, store the product at the temperature recommended below.

**Stability:**

Lyophilized Collagen-IV although stable at room temperature for 3 weeks, should be stored desiccated below -18C. Upon reconstitution Collagen-IV should be stored at 4C between 2-7 days and for future use below -18C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Please prevent freeze-thaw cycles.**

**Other names:**

Type IV Collagen, Type 4 Collagen, Collagen-4, COL4A1, Collagen alpha-1(IV) chain

**Usage:**

Ilex Life Sciences products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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