Proteins



Product Data Sheet

Collagen alpha-1(IX) chain/COL9A1 Protein, Human (HEK293, His)

Cat. No.: HY-P70009

rHuCollagen alpha-1(IX) chain/COL9A1, His; Collagen alpha-1(IX) chain; DJ149L1.1.2; EDM6; Synonyms:

Species: Human Source: **HEK293**

Accession: P20849-3 (A24-G598)

1297 Gene ID:

Molecular Weight: 38-50 kDa

PROPERTIES

AA Sequence				
	AVKRRPRFPV	NSNSNGGNEL	CPKIRIGQDD	LPGFDLISQF
	QVDKAASRRA	IQRVVGSATL	QVAYKLGNNV	DFRIPTRNLY
	PSGLPEEYSF	LTTFRMTGST	LKKNWNIWQI	QDSSGKEQVG
	IKINGQTQSV	VFSYKGLDGS	LQTAAFSNLS	SLFDSQWHKI
	MIGVERSSAT	LFVDCNRIES	LPIKPRGPID	IDGFAVLGKL
	ADNPQVSVPF	ELQWMLIHCD	PLRPRRETCH	ELPARITPSQ
	TTDERGPPGE	OGPPGPPGPP	GVPGIDGIDG	DRGPKGPPGP

PGPAGEPGKP GAPGKPGTPG ADTSP

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Endotoxin Level <1 EU/µg, determined by LAL method.

Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O. For long term storage it is

recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is

recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Collagen alpha-1(IX) chain (COL9A1) is one of the three alpha chains of type IX collagen, which is a minor (5-20%) collagen component of hyaline cartilage and a structural component of vitreous in the eye. COL9A1 has two isoforms through alternative slice. Type IX collagen is usually found in tissues containing type II collagen, a fibrillar collagen. Synthesis of COL9A1 chain is essential for assembly of type IX collagen molecules, a heterotrimeric molecule, and that lack of type IX

collagen is associated with early onset osteoarthritis. Mutations in COL9A1 are associated with osteoarthritis in humans, multiple epiphyseal dysplasia, and Stickler syndrome, a disease characterized by ophthalmic, orofacial, articular, and auditory defects [1][2][3][4].

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

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