Recombinant Human Collagen ?-1(III) Chain/COL3A1 protein (His tag)

Catalog Number:PDEH100164

Note: Centrifuge before opening to ensure complete recovery of vial contents.

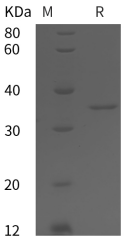
Description

Synonyms	Collagen alpha-1(III) chain;CO3A1_HUMAN;CO3A1;PIIICP
Species	Human
Expression Host	E.coli
Sequence	Asp 1222-Leu 1466
Accession	p02461
Calculated Molecular Weight	26.8 kDa
Observed molecular weight	35 kDa
Tag	N-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Collagen type III is found in most soft connective tissues, such as skin, lung, and the vascular system, often in association with type I collagen. It is a trimer of alpha 1(III) chains that are linked by interchain disulfide bonds. Defective collagen type III is a cause of Ehlers-Danlos syndrome types III and IV and arterial aneurisms (1). This recombinant mini pro-alpha 1(III) collagen consists of a triple-helical region of Gly-Xaa-Yaa repeats, a short non-helical region, and the C?terminal propeptide. The C?terminal propeptide can be removed by the procollagen C?proteinase (BMP-1).