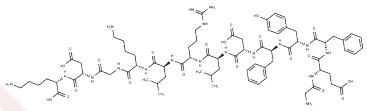
Data Sheet (Cat.No.TP2452)

TargetMol

Collagen type IV alpha1 (531-543)

Chemical Properties



CAS No. : 119953-02-5

Formula: C74H110N18O21

Molecular Weight: 1587.77

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Collagen type IV alpha1 (531-543) is a protein that in humans is encoded by the COL4A1 gene on chromosome 13. It is ubiquitously expressed in many tissues and cell types. COL4A1 is a subunit of type IV collagen and plays a role in angiogenesis.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6298 mL	3.1491 mL	6.2981 mL
5 mM	0.126 mL	0.6298 mL	1.2596 mL
10 mM	0.063 mL	0.3149 mL	0.6298 mL
50 mM	0.0126 mL	0.063 mL	0.126 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wilke MS, Furcht LT. Human keratinocytes adhere to a unique heparin-binding peptide sequence within the triple helical region of type IV collagen. J Invest Dermatol. 1990 Sep;95(3):264-70. PubMed PMID: 2384687.

Kim JP, Chen JD, Wilke MS, Schall TJ, Woodley DT. Human keratinocyte migration on type IV collagen. Roles of heparin-binding site and alpha 2 beta 1 integrin. Lab Invest. 1994 Sep;71(3):401-8. PubMed PMID: 7933990.

Miles AJ, Skubitz AP, Furcht LT, Fields GB. Promotion of cell adhesion by single-stranded and triple-helical peptide models of basement membrane collagen alpha 1(IV)531-543. Evidence for conformationally dependent and conformationally independent type IV collagen cell adhesion sites. J Biol Chem. 1994 Dec 9;269(49):30939-45. PubMed PMID: 7983028.

Toth M, Sado Y, Ninomiya Y, Fridman R. Biosynthesis of alpha2(IV) and alpha1(IV) chains of collagen IV and interactions with matrix metalloproteinase-9. J Cell Physiol. 1999 Jul;180(1):131-9. PubMed PMID: 10362026.

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