

Product Data Sheet

Product Name: Peptide 74

Cat. No.: GC63141

Chemical Properties

Cas. No. 132116-39-3

Formula $C_{62}H_{107}N_{23}O_{20}S_2$ M.Wt 1558.79

Solubility Water : 100 mg/mL (64.15 mM; Need ultrasonic) Storage -20°C, away from moisture

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

TMRKPRCGNPDVAN

Background

Peptide 74 is a synthetic peptide containing the prodomain sequence of matrix metalloproteinase (MMP). Peptide 74 inhibits the activated form of the 72-kDa type IV collagenase in vitro[1].

Peptide 74 (30 µM) reduces both A2058 and HT 1080 tumor cell invasion by 60-80%[1]. Peptide 74 (30 µM) shows no cytotoxic action and does not inhibit chemotaxis or affect HT1080 and A2058 human tumor cells number[1].

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

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- [1]. A Melchiori, et al. Inhibition of tumor cell invasion by a highly conserved peptide sequence from the matrix metalloproteinase enzyme prosegment. *Cancer Res.* 1992 Apr 15;52(8):2353-6.
- [2]. P P Lee, et al. Functional role of matrix metalloproteinases (MMPs) in mammary epithelial cell development. *J Cell Physiol.* 2001 Jul;188(1):75-88.

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