

Product Data Sheet

Product Name: P8RI
Cat. No.: GC63477

Chemical Properties

Cas. No. 2147724-76-1

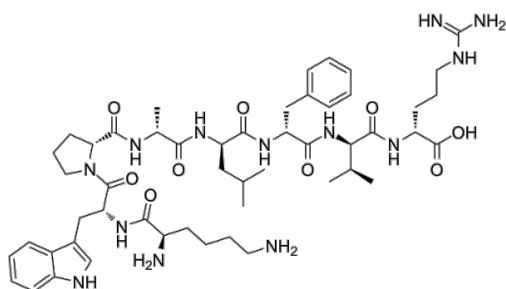
Formula $C_{51}H_{77}N_{13}O_9$ M.Wt 1016.24

Solubility Water : 100 mg/mL (98.40 mM; Need ultrasonic) Storage Store at -20°C

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



Background

P8RI (D-P8RI) is a biomimetic peptide of CD31 and a CD31 agonist. P8RI binds to the juxtamembrane amino acid sequence of the ectodomain of CD31, shows an immunosuppressive effect through restoration of the CD31 inhibitory pathway[1][2].

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

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P8RI (D-P8RI) was designed as a retro-inverso peptide with all-D-amino acids allowing to maintain bioactivity and to confer resistance towards plasma proteases[1].

P8RI (2.5 mg/kg; s.c.; daily from 7 to 28 after the occurrence of ADIM) prevents aneurysmal transformation by promoting the resolution of intramural hematoma and the production of collagen in dissected aortas in vivo, associated with enrichment of M2 macrophages at the site of injury[3].

[1]. Diaz-Rodriguez S, et al. Coronary stent CD31-mimetic coating favours endothelialization and reduces local inflammation and neointimal development in vivo. Eur Heart J. 2021;42(18):1760-1769.
[2]. Sannier A, et al. A CD31-Derived Peptide Prevents the Development of Antibody-Mediated Lesions in a Rat Model of Aortic Allograft. Transplant Proc. 2021;53(2):746-749. [3]. Andreato F, et al. Macrophage CD31 Signaling in Dissecting Aortic Aneurysm. J Am Coll Cardiol. 2018;72(1):45-57.

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