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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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740 Y-P

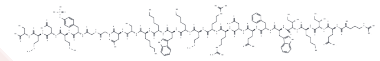
Chemical Properties

CAS No. : 1236188-16-1

Formula: C141H222N43O39PS3

Molecular Weight: 3270.7

Appearance: no data available

Storage: store at low temperature,store under nitrogen
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	740 Y-P (740YPDGFR) is a potent and cell-permeable activator of PI3K.
Targets(IC50)	PI3K, Autophagy
In vitro	740 Y-P is a synthetic biotinylated peptide. 740 Y-P stimulates mitogenesis at the lowest concentration tested (1 mg/mL). The peptide stimulates mitogenesis in both the presence and absence of serum (0.5%) and in the former instance, a maximal response observed at 50 mg/mL. 740Y-P peptide to stimulate mitogenesis is highly specific and not a general feature of a cell-permeable SH2 domain-binding peptide [1]. 740Y-P is as effective as a growth factor (FGF2) at promoting neuronal cell survival via the established PI 3-kinase-Akt survival cascade. Stimulation of neuronal cell survival by the PDGFR740Y-P peptide is dose-dependent and does not require insulin[2].

Solubility Information

Solubility	H2O: < 1 mg/mL (Insoluble) H2O: 5.5 mg/mL (1.68 mM), Adjust pH with HCl and sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3057 mL	1.5287 mL	3.0574 mL
5 mM	0.0611 mL	0.3057 mL	0.6115 mL
10 mM	0.0306 mL	0.1529 mL	0.3057 mL
50 mM	0.0061 mL	0.0306 mL	0.0611 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.

Reference

Zuo X, Wei X, Ju C, et al. Protective Effect of Photobiomodulation against Hydrogen Peroxide-Induced Oxidative Damage by Promoting Autophagy through Inhibition of PI3K/AKT/mTOR Pathway in MC3T3-E1 Cells. Oxidative

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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