

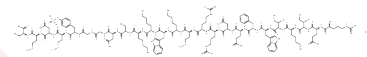
## 740 Y-P acetate

## Chemical Properties

CAS No. :

Formula: C143H226N43O41PS3

Molecular Weight: 3330.79



Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature

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	740 Y-P acetate (740YPDGFR acetate) is a potent and cell-permeable PI3K activator. 740 Y-P acetate tends to bind to GST fusion proteins containing the N- and C-terminal SH2 structural domains of p85, but not to GST alone.
Targets(IC50)	PI3K
In vitro	<p>740 Y-P TFA (1 µg/mL) stimulates Mitosis at the lowest concentration tested. The peptide stimulates Mitosis in the presence and absence of serum (0.5%). In the former instance, The maximum reaction was observed at 50 µg/mL. 740Y-P stimulation of Mitosis is highly specific, rather than the general characteristics of cell-permeable SH2 domain binding peptides. [1]</p> <p>740 Y-P TFA (50 µg/ml; 48 h) in the culture medium, the specific stimulation of Mitosis was superior to EGF or FGF in stimulating the entry of S phase, which showed that the percentage of S phase cells in C2 cells was 48.3%. In addition, LY294002 or wortmannin effectively inhibited the Mitosis response stimulated by the 740Y-P TFA peptide. [1]</p> <p>740 Y-P TFA (30 µM; 24 h) significantly inhibited the levels of LC3-II/LC3-I in GO induced PC12 cells. [2]</p>

## Solubility Information

Solubility	<p>H2O: 83.3 mg/mL (25.01 mM), Sonication is recommended.</p> <p>DMSO: 83.3 mg/mL (25.01 mM), Sonication is recommended.</p> <p>(&lt; 1 mg/ml refers to the product slightly soluble or insoluble)</p>
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.3002 mL	1.5011 mL	3.0023 mL
5 mM	0.060 mL	0.3002 mL	0.6005 mL
10 mM	0.030 mL	0.1501 mL	0.3002 mL
50 mM	0.006 mL	0.030 mL	0.060 mL

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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

Derossi D, et al. Stimulation of mitogenesis by a cell-permeable PI 3-kinase binding peptide. *Biochem Biophys Res Commun.* 1998;251(1):148-152.

Feng X, et al. Graphene oxide induces p62/SQSTM-dependent apoptosis through the impairment of autophagic flux and lysosomal dysfunction in PC12 cells. *Acta Biomater.* 2018;81:278-29

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