

## HNMPA-(AM)3

## Chemical Properties

CAS No. : 120944-03-8

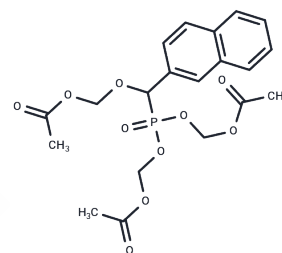
Formula: C<sub>20</sub>H<sub>23</sub>O<sub>10</sub>P

Molecular Weight: 454.36

Keep away from direct sunlight, Keep away from moisture

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	HNMPA-(AM)3 inhibits activation of ERK phosphorylation and stimulation of ecdysteroid production by prothytrotropin (PTTH). Furthermore, HNMPA-(AM)3 had inhibitory effects on ecdysteroid production (IC <sub>50</sub> =14.2 μM) and insulin receptor activity (IC <sub>50</sub> =14.2 μM and 200 μM, in mosquitoes and mammals, respectively).
Targets(IC <sub>50</sub> )	IGF-1R, Tyrosine Kinases

## Solubility Information

Solubility	Ethanol: 25 mg/mL (55.02 mM), Sonication is recommended. DMF: 5 mg/mL (11 mM), Sonication is recommended. PBS (pH 7.2): 1 mg/mL (2.2 mM), Sonication is recommended. DMSO: 80 mg/mL (176.07 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2009 mL	11.0045 mL	22.009 mL
5 mM	0.4402 mL	2.2009 mL	4.4018 mL
10 mM	0.2201 mL	1.1004 mL	2.2009 mL
50 mM	0.044 mL	0.2201 mL	0.4402 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

Gu SH, et al. PTH-stimulated ERK phosphorylation in prothoracic glands of the silkworm, *Bombyx mori*: role of Ca<sup>2+</sup>/calmodulin and receptor tyrosine kinase. *J Insect Physiol.* 2010;56(1):93-101.

Riehle MA, et al. Insulin stimulates ecdysteroid production through a conserved signaling cascade in the mosquito *Aedes aegypti*. *Insect Biochem Mol Biol.* 1999 Oct;29(10):855-60.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481