# HNMPA-$(AM)_3$

## Insulin receptor inhibitor

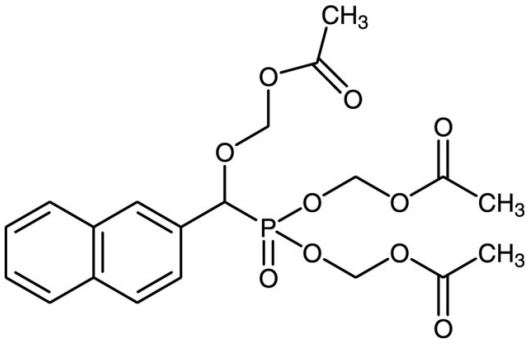
HNMPA-$(AM)_3$ is a cell-permeable analog of HNMPA. It inhibits insulin receptor tyrosine kinase activity ($IC_{50}$=100 μM) and insulin-stimulated glucose oxidation in isolated rat adipocytes ($IC_{50}$=10 μM). It has no effect on PKA (at concs. up to 1 mM) or PKC (at concs. up to 420 μM). Inhibits both serine and tyrosine autophosphorylation by the human insulin receptor. Does not affect protein kinase C (PKC) or cAMP-dependent protein kinase (PKA).

**Citations:** 7 View Online »

## Ordering Information Order Online »

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|---|---|
| **BML-EI248-0005** | 5mg |

## Manuals, SDS & CofA View Online »


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## Handling & Storage

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|---|---|
| **Use/Stability** | As indicated on product label or CoA when stored as recommended. Solutions are stable for up to 3 months whn stored at -20°C. Avoid alkaline medium, pH>8.0 |
| **Long Term Storage** | -20°C |
| **Shipping** | Ambient Temperature |

## Regulatory Status

RUO - Research Use Only

## Product Details

| | |
|---|---|
| **Alternative Name** | Hydroxy-2-naphthalenylmethylphosphonic acid tri-acetoxymethyl ester |
| **Appearance** | Colorless oil. |
| **CAS** | 120944-03-8 |
| **Couple Target** | Insulin receptor |
| **Couple Type** | Inhibitor |
| **Formula** | $C_{20}H_{23}O_{10}P$ |
| **Identity** | Determined by NMR. |
| **MW** | 454.4 |
| **Purity** | ≥98% (TLC) |
| **Solubility** | Soluble in DMSO (>20mg/ml) or 100% ethanol (>20mg/ml). |

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