

## 4-Hydroxy-3-Nitrophenylacetyl-PE

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: 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	4-Hydroxy-3-Nitrophenylacetyl-PE (NP-PE) is a fluorescently labeled immunoreagent, formed by conjugating the hapten NP (4-hydroxy-3-nitrophenylacetyl) with the fluorescent dye PE (phycoerythrin). It is primarily used to study the mechanisms of B-cell capture and immune complex transport, relying on the complement system and functioning by binding to complement receptors CR1 and CR2 on B cells.
Targets(IC50)	Complement System
In vivo	4-Hydroxy-3-Nitrophenylacetyl-PE (10 µg, subcutaneous injection, single dose) can induce the formation of 4-Hydroxy-3-Nitrophenylacetyl-PE-labeled immune complexes in C57BL/6 mice and activate B-cell immune responses [1].

## Reference

Phan T G, Okada T, et al. Subcapsular encounter and complement-dependent transport of immune complexes by lymph node B cells[J]. Nature immunology, 2007, 8(9): 992-1000.

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