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**Product Data Sheet**


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Product Name: PtdIns-(3,4,5)-P3-biotin (sodium salt)

Cat. No.: GC44753

**Chemical Properties**

Cas. No. 1415684-80-8

SMILES O[C@@H]1[C@@H](OP([O-])(O)=O)[C@H](OP([O-])(O)=O)[C@@H](OP([O-])(O)=O)[C@@H](O)[C@H]1OP([O-])(OC[C@@H](COC(CCCCCCNC(CCCC[C@@H]2SC[C@@](N3[H]))([H])[C@]2([H])N([H])C3=O)=O)=O)OC(CCCCCC)=O)=O.[Na+].[Na+].[Na+].[Na+]

Formula C<sub>35</sub>H<sub>61</sub>N<sub>3</sub>O<sub>24</sub>P<sub>4</sub>S•4Na

M.Wt

1155.8

Solubility Water: 1 mg/ml

Storage

Store at -20°C

General tips

For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

The PtdIn phosphates play an important role in the generation and transduction of intracellular signals. PtdIns-(3,4,5)-P3-biotin is an affinity probe which allows the PIP3 to be detected through an interaction with the biotin ligand. This design allows PtdIns-(3,4,5)-P3-biotin to serve as a general probe for any protein with a high affinity binding interaction with inositol-(3,4,5)-triphosphate phospholipids, such as phosphatidylinositol 3-kinase, PTEN, or PH-domain-containing proteins.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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