

## Product Information

### FP-Biotin, Purity $\geq 98\%$

**Cat. No.:** X24-09-YM1228

**Size:** 2 mg; 5 mg; 10 mg; 20 mg

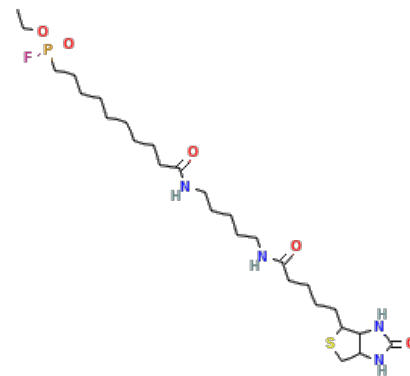
**CAS Number:** 259270-28-5

**Compound CID:** 24762158

**Synonym:** 259270-28-5;

10-Fluoroethoxyphosphinyl-*N*-biotinamidopentyldecanamide;

10-[Ethoxy(fluoro)phosphoryl]-*N*-[5-[5-(2-oxo-1,3,3a,4,6,6a-hexahydrothieno[3,4-d]imidazol-4-yl)pentanoylamino]pentyl]decanamide



**This product is for research use only and is not intended for diagnostic use.**

### Product Information

|                          |  |
|--------------------------|--|
| <b>Description</b>       | FP-Biotin is a biotinylated organophosphorus agent. The molecular weight of the compound is 592.7468642, and its molecular formula is $C_{27}H_{50}FN_4O_5PS$ .                                  |
| <b>Molecular Weight</b>  | 592.7468642  |
| <b>Molecular Formula</b> | $C_{27}H_{50}FN_4O_5PS$  |
| <b>IUPAC Name</b>        | 10-[Ethoxy(fluoro)phosphoryl]- <i>N</i> -[5-[5-(2-oxo-1,3,3a,4,6,6a-hexahydrothieno[3,4-d]imidazol-4-yl)pentanoylamino]pentyl]decanamide   |
| <b>InChI</b>             | InChI=1S/C27H50FN4O5PS/c1-2-37-38(28,36)20-14-7-5-3-4-6-9-16-24(33)29-18-12-8-13-19-30-25(34)17-11-10-15-23-26-22(21-39-23)31-27(35)32-26/h22-23,26H,2-21H2,1H3,(H,29,33)(H,30,34)(H,2,31,32,35) |
| <b>InChI Key</b>         | ZIFSFLGSUTZFCP-UHFFFAOYSA-N  |
| <b>Canonical SMILES</b>  | <chem>CCOP(=O)(CCCCCCCCC(=O)NCCCCNC(=O)CCCCC1C2C(CS1)NC(=O)N2)F</chem>   |
| <b>Isomeric SMILES</b>   | <chem>C1=C(NC=N1)/C=C\C(=O)O</chem>  |
| <b>Form</b>              | Lyophilized powder   |
| <b>Purity</b>            | $\geq 98\%$  |
| <b>Impurities</b>        | Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.   |
| <b>Identity</b>          | Confirmed by NMR/HPLC/MS.  |
| <b>Stability</b>         | In its lyophilized form, the chemical remains stable for 36 months.  |
| <b>Quality Level</b>     | Research grade   |
| <b>Applications</b>      | FP-Biotin plays a key role in facilitating the attachment of biotin to proteins of interest, which can be  |



further analyzed for biological roles and pathways.

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**Storage**

Store at -20°C, and keep desiccated.

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