

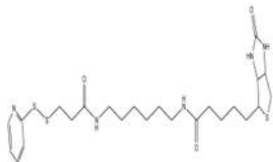
# Biotin-HPDP Crosslinker

**ALTERNATE NAME:** N-[6-(Biotinamido)hexyl]-3'-(2'-pyridyldithio)-propionamide; Biotin-HPDP, pyridyldithiol-biotin, pyridyldisulfide-biotin

**CATALOG#:** 2329-50, 250

**AMOUNT#:** 50 mg, 250 mg

## STRUCTURE:



**MOLECULAR FORMULA#:** C<sub>24</sub>H<sub>37</sub>N<sub>5</sub>O<sub>3</sub>S<sub>3</sub>

**MOLECULAR WEIGHT#:** 539.78

**CAS#:** 129179-83-5

**APPEARANCE:** White to off-white solid

**SOLUBILITY:** DMSO or DMF

**PURITY:** ≥90% by NMR

**STORAGE:** +4 C. Protect from moisture

## DESCRIPTION:

Biotin-HPDP is a sulfhydryl reactive biotinylation reagent

## KEY FEATURES:

- HPDP contains a dithiopyridyl group which is reactive towards sulfhydryl groups (-SH) such as in cysteine (C) side chain to form stable disulfide bond
- Contains a spacer arm with a length of 29.2 Å that prevents steric hindrance to biotin labeling
- The spacer is cleavable at the disulfide bond with reducing agent, such as DTT, TCEP, etc.
- Must be dissolved in an organic solvent such as DMF or DMSO before dilution with aqueous buffers

## APPLICATIONS:

- Ideal for biotinylating antibody or protein for use in protein detection, purification or immobilization

## RELATED PRODUCTS:

Sulfo-SMCC (Cat. No. 2320-50, 100, 1000, 1 EA)  
 Sulfo-NHS (Cat. No. 2321-500, 5G, 1 EA)  
 Sulfo-NHS-Biotin (Cat. No. 2322-50, 250, 1 EA)  
 Sulfo-SANPAH (Cat. No. 2324-50, 250)  
 Sulfo-LC-SPDP (Cat. No. 2325-50, 250)  
 Sulfo-NHS-LC-Biotin (Cat. No. 2326-50, 250, 1EA)  
 BS3 Crosslinker (Cat. No. 2327-50, 250, 1000, 1 EA)  
 SPDP Crosslinker (Cat. No. 2328-50, 250)  
 Traut's Reagent (Cat. No. 2330-50, 250, 1000)  
 N-Hydroxy succinimide (Cat. No. 2331-1G, 5G, 25G)  
 DTSSP Crosslinker (Cat. No. 2337-50, 250)

**FOR RESEARCH USE ONLY! Not to be used on humans.**