

**TECHNICAL DATA SHEET**

## Agarose Beads, Pyridyl disulfide functional

Catalog Numbers: AR-PDP-1

Other names: Thiol activated agarose, OPSS agarose

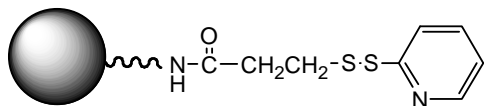
### Description:

**Pyridyldisulfide propionate (PDP)** functionalized agarose beads from Nanocs are made to react with molecules with free sulfhydryl groups (-SH). **PDP** (pyridyldithio propionate) is a commonly used sulfhydryl reactive group that reacts readily with free thiol groups at pH 4.5-8.5.

Reaction

between thiol

and PDP forms a disulfide bond that can be cleaved by dithio reducing reagents such as DTT or TCEP. PDP functionalized agarose beads can immobilize free sulfhydryl containing molecules with high efficiency. Subsequent disulfide bond cleavage can release the immobilized molecules.



### Storage Conditions:

**PDP functionalized Agarose beads** should be stored at 4-8 °C for best use. **Do not freeze after suspension.**

### Notes:

*Recommended pH:* Working: 3-10.

*Temperature Stability:* 4-40 °C.

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

### Product Specifications:

- **Bead Matrix:** 4% crosslinked Agarose beads.
- **Bead Size:** 50~150 microns.
- **Ligand:** PDP (Pyridylthiol) group.
- **Ligand density:** 30~50 µmol/mL bead.
- **Reactive to:** Sulfhydryl (-SH).

### Handling and Use:

**PDP functional agarose** beads are supplied in isopropanol/water suspension. PDP groups are reactive to sulfhydryl groups at aqueous solution. Avoid any sulfhydryl containing buffer. Before use, suspend and exchange agarose beads with appropriate aqueous buffer. PDP and sulfhydryl reaction can be completed in one to two hours in room temperature.

### To Order:

Order online: [www.nanocs.net](http://www.nanocs.net)Order by Email: [sales@nanocs.com](mailto:sales@nanocs.com)

Order by phone: 1(800) 388-4221; 1(888) 908-8803

For more information, visit [www.nanocs.net](http://www.nanocs.net)