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TECHNICAL DATA SHEET

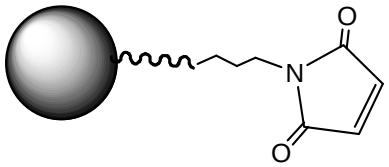
Agarose Beads, maleimide functional

Catalog Numbers: AR-ML-1

Synonym: Maleimide agarose beads, Maleimide affinity beads, Thiol reactive agarose

Description:

Maleimide functional agarose beads (Agarose-Maleimide) from Nanocs were made from 4% cross-linked agarose beads with thiol (-SH) reactive maleimide groups available. Maleimide group react readily with sulfhydryl groups in aqueous buffer at pH 6.6~7.5 to form stable thiol-ether bond. Maleimide functional agarose thus can be used to immobilize proteins, antibodies, peptides or nucleic acids with free sulfhydryl groups. These beads can also be used to remove free sulfhydryl containing molecules in aqueous solution.



Product Specifications:

- **Bead Matrix**: 4% cross-linked agarose bead.
- **Bead Size**: 50~150 microns.
- **Ligand**: Maleimide group.
- **Maleimide density**: 30-50 µmol/mL beads.
- **Storage Solution**: in isopropanol solution.

Handling and Use:

Maleimide functional agarose beads are in isopropanol suspension. Maleimide groups are reactive to sulfhydryl groups at pH 6.5-7.5, and they are also reactive toward amine groups in alkaline pH. In addition, maleimide group can get hydrolyzed in aqueous solution over the time. Avoid any amine or sulfhydryl containing buffer. Before use, exchange isopropanol with water and reaction buffer, such as 100 mM phosphate buffer, pH 7.0 three times, then suspend the bead in 50/50 to reaction buffer. Maleimide and sulfhydryl reaction can be completed in one hour in room temperature or 2 hours in 4 ^{0}C.

Storage Conditions:

Maleimide functional agarose beads should be stored at 4-8 ^{0}C for best use. Beads should be used as soon as possible. Long-term shelf life of these beads is not known. **Do not freeze.**

Notes:

Recommended pH: Working: 5-10.

Temperature Stability: 4-40 ^{0}C.

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

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