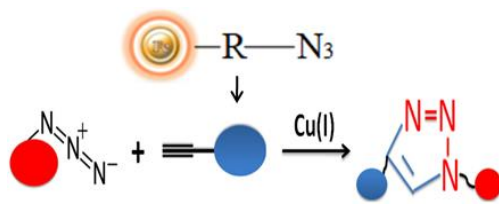


## Azide Activated- Magnetic Beads

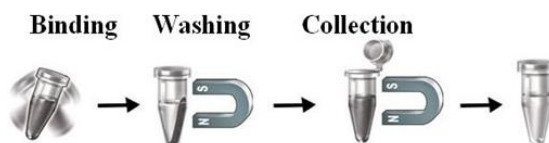
BcMag™ Azide Activated- Magnetic Beads are uniform inert silica-enclosed magnetic beads grafted with a high density of azide functional groups on the surface (Fig.1). The beads efficiently enrich alkyne-tagged biomolecules from complex cell lysates via a Cu(I)-catalyzed Alkyne-Azide (CUAAC) reaction. Compared with other affinity resins such as agarose or other polymers beads, the inert silica enclosed magnetic beads offer high stability, low nonspecific binding, and superior handling in protein-based systems. These magnetic beads are an ideal matrix for genomics, proteomics, biomarker discovery, posttranslational modification (PTM) analysis, etc.



**Fig.1 Structure of Azide-activated Magnetic Beads**

### Workflow

The beads work perfectly as affinity resin for capturing alkyne-tagged biomolecules from complex cell lysate. Add the beads to a sample containing the tagged biomolecules, then mix, incubate, wash, and elute the target molecules (Fig.2).



**Fig.2**

### Features and Advantages

- Easy to use
- More efficient and low nonspecific binding
- Stable covalent bond with minimal ligand leakage
- Produces reusable matrices
- Low nonspecific binding

<b>Specification</b>		
Composition	Magnetic beads grafted with a high density of azide groups on the surface.	
Number of Beads	~ 1.68 x 10 <sup>9</sup> beads/mg (1µm beads); ~ 5x 10 <sup>7</sup> beads /mg (5µm beads)	
Stability	Short Term (<1 hour): pH 4-11; Long-Term: pH 4-10 Temperature: 4°C -140°C; Most organic solvents	
Magnetization	~40-45 EMU/g	
Type of Magnetization	Superparamagnetic	
Formulation	Lyophilized Powder	
Functional Group Density	1µm Magnetic Beads	~40 nmole / mg of Beads
	5µm Magnetic Beads	~35 nmole /mg of Beads
Storage	Ship at room temperature, Store at 4° upon receipt.	

<b>Related Products</b>	
Amine-Terminated Magnetic Beads	Iodoacetyl-Activated Magnetic Beads
DADPA-Activated Magnetic Beads	Peptide conjugation buffer Kit-I
Carboxyl-Terminated Magnetic Beads	Peptide conjugation buffer Kit-II



Epoxy-Activated Magnetic Beads	DVS-Activated Magnetic Beads
Hydrazide-Terminated Magnetic Beads	NHS-Activated Magnetic Beads
Glycoprotein and Antibody Conjugation Kit-I	Hydroxyl-Terminated Magnetic Beads
Glycoprotein and Antibody Conjugation Kit-II	Sulfhydryl-Terminated Magnetic Beads
Aldehyde-Activated Magnetic Beads	Tosyl-Activated Magnetic Beads
Silica-Modified Magnetic Beads	CDI-Activated Magnetic Beads
Alkyne-Activated Magnetic Beads	Thiol-Activated Magnetic Beads
Azide-Activated Magnetic Beads	Cleavable NHS-Activated Magnetic Beads
Cleavable Amine-Terminated Magnetic Beads	Cleavable Azide-Activated Magnetic Beads
Cleavable Carboxyl-Terminated Magnetic Beads	Cleavable Alkyne-Activated Magnetic Beads
Cleavable Epoxy-Activated Magnetic Beads	Cleavable Iodoacetyl-Activated Magnetic Beads
Cleavable Hydrazide-Terminated Magnetic Beads	Cleavable Tosyl-Activated-Magnetic Beads
Cleavable Aldehyde-Activated Magnetic Beads	Streptavidin Magnetic Beads
Boronate Affinity Magnetic Beads	Cleavable Streptavidin Magnetic Beads
Monomer Avidin Magnetic Beads	