

**Biotin-X IDA**

Catalog number: 12630

Unit size: 1 mg

**Product Details**

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Storage Conditions	Freeze (<-15 °C), Minimize light exposure
Expiration Date	12 months upon receiving

**Chemical Properties**

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Appearance	Solid
Molecular Weight	515.63
Soluble In	Water

**Applications**

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Immobilized metal affinity chromatography (IMAC) is a popular method for protein purification, particularly for recombinant proteins fused to a polyhistidine-tag. Transition metal ions immobilized to a matrix through a chelating ligand interact with the polyhistidine-tag, effectively sequestering the fused protein from a sample. Nitrilotriacetic acid (NTA) and iminodiacetic acid (IDA) are two such ligands commonly used in commercially available resins. AAT Bioquest offer a variety of NTA building blocks for developing either NTA-based purification and detection. IDA is complimentary to NTA. The tridentate IDA ligand requires a lower imidazole concentration to elute protein than the tetridentate NTA. IDA is a smaller molecule which can be coupled to the matrix at a higher density resulting in a higher metal loading capacity. Biotin IDA is a bifunctional reagent that can be used to detect histidine-tagged proteins immobilized. Biotin IDA can be removed from the histidine-tagged protein at pH 4.8, allowing the blot to be reanalyzed with another probe.