

**IDA maleimide**

Catalog number: 12631

Unit size: 5 mg

**Product Details**

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Storage Conditions Freeze (&lt;-15 °C), Minimize light exposure

Expiration Date 12 months upon receiving

**Chemical Properties**

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Appearance Solid

Molecular Weight 371.35

Soluble In DMSO

**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. IDA maleimide is an excellent building block that can be used to develop a variety of IDA probes for detecting polyHis-containing proteins, and tools for purifying polyHis tagged proteins.