NTA succinimidyl ester

Catalog number: 12608
Unit size: 5 mg

Product Details

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

Chemical Properties

Appearance	Solid
Molecular Weight	515.52
Soluble In	DMSO

Applications

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) is such a ligand commonly used in commercially available resins for purifying proteins. On the other hand, tag-NTA conjugates are used for detecting polyhistidine-tagged proteins. NTA succinimidyl ester is an excellent building block that can be readily used to attach NTA groups to a biological substrate or a surface that has amino groups. Through the NTA moiety attached to the substrate or surface, genetically expressed proteins bearing the hexahistidine extension (HIS Tag) can be detected or immobilized via Ni-mediated His-Tag method.

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