

Magrose Beads NTA-Nickel (Ultra-suspension)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Appearance: Solid

Storage: store at 4°C

Biological Description

Description	TargetMol His-tag Protein Purification Beads NTA-Nickel is a new type of superparamagnetic functional material designed for efficient and rapid purification of His-tag proteins. It can directly extract high-purity target proteins from biological samples in one step using the magnetic separation method, which greatly simplifies the purification process and improves efficiency. The method is suitable for scientific research and industrial areas to facilitate the purification of his-tag protein. Based on magnetic agarose microspheres, the His-tag protein purification beads activate and couple iminodiacetic acid (IDA) or nitrilotriacetic acid (NTA). Then, they chelate respectively nickel (Nickel) and cobalt (Cobalt) ions. IDA has a relatively strong binding affinity with His-tag proteins and has a higher loading capacity but lower specificity, while NTA has the opposite characteristics. Nickel and Cobalt ions have different properties at a binding capacity of target proteins and non-specific adsorption. Nickel magnetic beads have a higher protein loading capacity but slightly lower purity (90%), while Cobalt magnetic beads have a slightly lower protein loading capacity but higher purity (95%). Users can select different types of His-tag protein purification beads based on different purposes.
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Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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