

TUBB4A Protein, Human, Recombinant (His)

General Information

Synonyms:	Tubulin β -4A Chain;Tubulin 5 β ;TUBB4;TUBB5;Tubulin Beta-4A Chain;TUBB4A;Tubulin 5 Beta; Tubulin Beta-4 Chain;Tubulin β -4 Chain
Protein Construction:	Met1-Ala444
Species:	Human
Expression Host:	E. coli
Accession:	P04350
Molecular Weight:	58 KDa (reducing condition)
AA Sequence:	Met1-Ala444

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 90% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing 20 mM Histidine-HCl, 10% Trehalose, 100 mM NaCl, 0.05% Tween 80, pH6.5.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Tubulin Beta-4A Chain (TUBB4A) is a cytoplasmic peptide containing 444 amino acids. TUBB4A is a member of the Tubulin family. Tubulin is the major constituent of microtubules. Tubulin is a dimer composed of one alpha and one beta tubulin molecule; there are many forms of beta tubulins, Beta II and Beta IV Tubulin are ubiquitously expressed. Beta-III Tubulin, also known as Tubulin Beta-4, is regarded as a neuron-specific marker. It binds two

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moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha-chain.

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