Recombinant MTAP2 protein (His tag)

Catalog Number	537509
Synonyms	MAP-2
Species	Human
Expression System	E. coli
Accession	P11137
Molecular Weight	Predictes a molecular mass of 12.13 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	1667-1763
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 1667-1763 aa (P11137) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Introducing the recombinant human Microtubule-associated protein 2 (MAP-2) fragment (residues 1667-1763), a 97-amino acid protein designed for structural and biochemical studies. This fragment offers a stable, soluble unit ideal for investigating MAP-2's role in microtubule dynamics and cytoskeletal organization. Microtubule-associated protein 2 (MAP-2) is a cytoskeletal protein predominantly localized in the cytoplasm and dendrites, where it contributes to neuronal structure and function. While its precise mechanism remains under investigation, MAP-2 is known to stabilize microtubules against depolymerization and enhance their rigidity, playing a critical role in maintaining cytoskeletal integrity and cellular morphology. The provided fragment represents a computationally optimized region selected for high solubility and stability, facilitating experimental analysis without known functional domains.