

TXLNA Protein, Human, Recombinant (His)

General Information

Synonyms:	α -Taxilin;Alpha-Taxilin;TXLN;TXLNA
Protein Construction:	Met1-Lys162
Species:	Human
Expression Host:	E. coli
Accession:	P40222
Molecular Weight:	30 KDa (reducing condition)
AA Sequence:	Met1-Lys162

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 95% 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 PBS, pH 7.4.

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

α -Taxilin belongs to the taxilin family. α -Taxilin exists in almost all tissues, with higher expression levels observed in the heart, kidney, liver, and pancreas. α -Taxilin binds to the C-terminal coiled coil region of syntaxin family members STX1A, STX3A, and STX4A, but not when these proteins are complexed with SNAP25, VAMP2 or STXBP1, suggesting that it interacts with syntaxins that do not form the SNARE complex. It is shown that α -Taxilin plays multiple roles in the generation and maintenance of neurons through modulation of the NAC-mediated

translational machinery and/or the syntaxin-mediated vesicle traffic in the soma. In addition, α -Taxilin may be involved in intracellular vesicle traffic and potentially in calcium-dependent exocytosis in neuroendocrine cells.

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