

## TAGLN3 Human

**Description:** TAGLN3 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 219 amino acids (1-199) and having a molecular mass of 24.6 kDa. The TAGLN3 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #: PRPS-953

For research use only.

**Synonyms:** Transgelin 3, NP22, NP25, Neuronal protein 22, Neuronal protein NP25.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MANRGPSYGL SREVQEKIEQ  
KYDADLENKL VDWIILQCAE DIEHPPPGR A HFQKWLMDGT VLCKLINSLY PPGQEPIPKI  
SESKMAFKQM EQISQFLKAA ETYGVRTTDI FQTVDLWEGK DMAAVQRTLM ALGSVAVTKD  
DGCYRGEPSW FHRKAQQNRR GFSEEQLRQG QNVIGLQMGS NKGASQAGMT GYGMPRQIM

**Purity:** Greater than 90% as determined by SDS-PAGE.

### Formulation:

The TAGLN3 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 20% glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

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### Introduction:

TAGLN3 holds a putative Actin-binding domain, two potential phosphorylation sites, two EF-hand motifs and a calponin-homology (CH) domain. TAGLN3 is homologous to transgelin and calponin, two cytoskeleton-interacting proteins. TAGLN3 is a member of the calponin family, and is co-localized with Actin and tubulin, which indicates that TAGLN3 has a part in neuronal plasticity or as a signaling protein. As a result of a wide-ranging expression pattern, TAGLN3 is able to take different roles in the developing and adult brain.

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