

**NRGN, 1-78aa, Human, His tag, E.coli**

**Cat.NO.: TP03198**

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3th Edition

**Synonyms:**Neurogranin, hng, RC3

**Description:**NRGN, also known as Neurogranin, is a calmodulin-binding protein expressed exclusively in the brain, particularly in dendritic spines, and participating in the protein kinase C signaling pathway. This protein is the main postsynaptic protein regulating the availability of calmodulin, binding to it in the absence of calcium. Phosphorylation by protein kinase C lowers its binding ability. Recombinant human NRGN protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography

**Form:**Liquid. 20mM Tris-HCl buffer (pH7.0) containing 30% glycerol 0.1mM PMSF, 1mM EDTA

**Molecular Weight:**10.0 kDa(101aa) confirmed by MALDI-TOF (Molecular size on SDS-PAGE will appear higher)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSMDCCTENACSKPDDDILDIPLDDPGANAAAQIQASFRGHMARKKIKSGERG  
RKGPGPGGGAGVARGGAGGGPSGD

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by BCA assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.