
Product Data Sheet

Product Name: NRGN Human
 Cat. No.: GP20775
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	hng; RC3; Neurogranin; Ng; NRGN.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMDCCCTEN ACSKPDDIL DIPLDDPGAN AAAAKIQASF RGHMARKKIK SGERGRKGP GGGPGGAGVA RGGAGGGPSG D.		
Formulation	NRGN protein solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH7.0), 30% glycerol 0.1mM PMSF and 1mM EDTA.		

Introduction

Neurogranin (NRGN) is a calmodulin-binding protein which is expressed solely in the brain, mainly in dendritic spines. NRGN is also taking part in the protein kinase C signaling pathway by being a "third messenger" substrate of protein kinase C-mediated molecular cascades during synaptic development and remodeling. NRGN binds to calmodulin in the absence of calcium. NRGN protein is phosphorylated by protein kinase C lowers its binding ability.

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.

Background

NRGN Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 101 amino acids (1-78 a.a.) and having a molecular mass of 10.0kDa (molecular size on SDS-PAGE will appear higher). NRGN is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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