

Active Recombinant Full Length Human NRGN Protein, C-Flag-tagged

Cat. No. NRGN-113HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human NRGN Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Neurogranin (NRGN) is the human homolog of the neuron-specific rat RC3/neurogranin gene. This gene encodes a postsynaptic protein kinase substrate that binds calmodulin in the absence of calcium. The NRGN gene contains four exons and three introns. The exons 1 and 2 encode the protein and exons 3 and 4 contain untranslated sequences. It is suggested that the NRGN is a direct target for thyroid hormone in human brain, and that control of expression of this gene could underlay many of the consequences of hypothyroidism on mental states during development as well as in adult subjects.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	ELISA standard
Molecular Mass	7.4 kDa
AA Sequence	MDCCTENACSKPDDDILDIPLDDPGANAAAAKIQASFRGHMARKKIKSGERGRKGP GPGGPGGAGVARGGAGGGPSGDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Full Length	Full L.

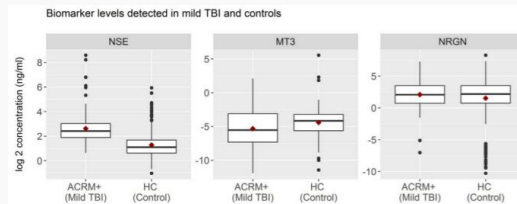
GENE INFORMATION

Gene Name	NRGN neurogranin [Homo sapiens (human)]
Official Symbol	NRGN
Synonyms	RC3; hng
Gene ID	4900
mRNA Refseq	NM_006176.3
Protein Refseq	NP_006167.1
MIM	602350

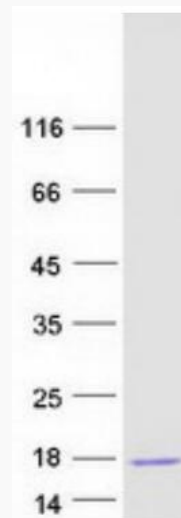
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UniProt ID
Q92686


Distribution of biomarker concentrations in mild traumatic brain injury (mTBI) and healthy control subjects were measured by a sandwich immunoassay with electrochemiluminescence detection. Box plots show log₂-transformed detected serum levels for the American Congress of Rehabilitation Medicine-defined (ACRM+) mTBI patients versus healthy controls. The horizontal black lines represent the median of each distribution; red diamonds indicate the mean for the subgroup. Black dots are individual patients with values 1.5 times beyond the interquartile range and are, therefore, outliers.



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Coomassie blue staining of purified NRGN protein.

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