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# **DATASHEET**

Recombinant human Neurogranin / NRGN protein

#### **Product overview**

Name Recombinant human Neurogranin / NRGN protein

Cat No HB8383

**Biological description** Postsynaptic protein that is a cerebrospinal fluid (CSF) biomarker for Alzheimer's disease.

Species of origin human

Alternative names Recombinant Human Neurogranin?, hng, RC3, Neurogranin, Ng, NRGN.

Purity >90%

**Description** Postsynaptic protein

# **Solubility & Handling**

Storage instructions Handling +4°C 2-4 weeks (long term see website)

- Solutions should be made in sterile deionized water (not less than 100 μg/ml). This solution can then be further diluted with other aqueous solutions.
- Following reconstitution, solutions may be stored at 4 °C and are useable for around 2-7 days and for future use store at -18 °C.
- For long term storage, a carrier protein (0.1% HSA or BSA) should be added to stock solutions.
   Solutions should be aliquoted into tightly sealed vials for storage at -20°C. Freeze-thaw cycles should be prevented.

**Shipping Conditions** 

**Important** 

Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use

## **Chemical Data**

UniProt ID Q92686
Concentration 0.5mg/mL
Molecular Weight 10

Sequence (one letter) MGSSHHHHHH SSGLVPRGSH MGSMDCCTEN ACSKPDDDIL DIPLDDPGAN AAAAKIQASF

RGHMARKKIK SGERGRKGPG PGGPGGAGVA RGGAGGGPSG D

Source E. Col

Appearance Colourless solution (sterile filtered)

Formulation Solution (0.5mg/ml) containing Tris-HCl buffer (20mM, pH7.0), 30% glycerol PMSF (0.1mM) and

EDTA (1mM)

### References

The intact postsynaptic protein neurogranin is reduced in brain tissue from patients with familial and sporadic Alzheimer's disease

Kvartsberg H *et al* (2019) Acta Neuropathol 137(1) **PubMedID** 30244311

Neurogranin in cerebrospinal fluid as a marker of synaptic degeneration in Alzheimer's disease

Thorsell A et al (2010) Brain Res 1362

PubMedID 20875798

## Neurogranin, a synaptic protein, is associated with memory independent of Alzheimer biomarkers

Casaletto KB et al (2017) Neurology 89(17)

PubMedID 28939668