

CHGB Human

Description: CHGB Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 677 amino acids (21-677 a.a.) and having a molecular mass of 78.4kDa. CHGB protein is fused to a 20 amino acid His-Tag at N-terminus and purified by standard chromatography.

Catalog #: PRPS-831

For research use only.

Synonyms: SCG1, Secretogranin 1, secretogranin B, CHGB, Sgl, CgB.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MPVDNRNHNE GMVTRCIEV
LSNALSKSSA PPITPECRQV LKTSRKDVKD KETTENENTK FEVRLLRDPA DASEAHSSS
RGEAGAPGEE DIQGPTKADT EKWAEGGGHS RERADEPQWS LYPDSQVSE EVKTRHSEKS
QREDEEEEEG ENYQKGERGE DSSEKHL EE PGETQNAFLN ERKQASAIKK EELVARSETH
AAGHSQEKTH SR

Purity: Greater than 80% as determined by SDS-PAGE.

Formulation:

The CHGB protein 0.25mg/ml solution containing 20mM Tris-HCl pH-8, 0.15M NaCl & 10% 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:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

CHGB is a neuroendocrine secretory granule protein, that is the precursor for other biologically active peptides. CHGB is part of the chromogranin/secretogranin protein family and is expressed in the adrenal medulla, and in pheochromocytoma.

References:

Title: Secretoneurin promotes neuroprotection and neuronal plasticity via the Jak2/Stat3 pathway in murine models of stroke. Publication: The Journal of Clinical Investigation, <http://www.jci.org>, Volume 118, Number 1, January 2008. Link: <http://www.jci.org/articles/view/32723/files/pdf>
Applications: CHGB acts directly on neurons after hypoxia and ischemic insult to further their survival by activating the Jak2/Stat3 pathway.

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