

Recombinant human Chromogranin B protein

Catalog Number: ATGP0523

PRODUCT INFORMATION

Expression system

E.coli

Domain

21-677aa

UniProt No.

P05060

NCBI Accession No.

AAH00375

Alternative Names

CHGB, SCG1, Secretogranin 1, Sgl, Secretogranin I, Secretogranin B, CgB, Chromogranin-B

PRODUCT SPECIFICATION

Molecular Weight

78.4 kDa (677aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.15M NaCl

Purity

> 80% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

CHGB, also known as secretogranin-1 or chromogranin-B, is a neuroendocrine secretory granule protein, which may be the precursor for other biologically active peptides. This protein belongs to the chromogranin/secretogranin protein family and is expressed in the adrenal medulla, and in pheochromocytoma. Recombinant CHGB protein was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

<MGSSHHHHHH SGLVPRGSH> MPVDNRNHNE GMVTRCIIEV LSNALSKSSA PPITPECRQV LKTSRKDVKD
KETTENTNK FEVRLLRDPA DASEAHSSS RGEAGAPGEE DIQGPTKADT EKWAEGGGHS RERADEPQWS LYPSDSQVSE
EVKTRHSEKS QREDEEEEEEG ENYQKGERGE DSSEEKHLEE PGETQNAFLN ERKQASAIKK EELVARSETH AAGHSQEKTH
SREKSSQESG EEAGSQENHP QESKGQPRSQ EESEEGEEDA TSEVDKRRTR PRHHHGRSRP DRSSQGGSLP SEEKGHPQEE
SEESNVSMAS LGEKRDHST HYRASEEPE YGEEIKGYPG VQAPEDLEWE RYRGRGSEY RAPRPQSEES WDEEDKRNYP
SLELDKMAHG YGEESEEEERG LEPGKGRHHR GRGGEPRAYF MSDTREEKRF LGEGHHRVQE NQMDKARRHP
QGAWKELDRN YLNYGEEGAP GKWQQQGDQ DTKENREEAR FQDKQYSSH TAEKRRLGE LFNPPYDPLQ
WKSSHFERRD NMNDNFLEGE EENELTNEK NFFPEYNYDW WEKKPFSEDV NWGYEKRNL RVPKLDLKRQ
YDRVAQLDQL LHYRKSAEF PDFYDSEEPV STHQEAENEK DRADQTVLTE DEKKELENLA AMDLELQKIA EKFSQRG

General References

Benjannet S., et al. (1987) FEBS Lett. 224(1):142-8.

Gill BM., et al. (1991) Regul Pept. 33(2):223-35.

DATA

SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

