

Recombinant human Galanin protein

Catalog Number: ATGP2054

PRODUCT INFORMATION

Expression system

E.coli

Domain

20-123aa

UniProt No.

P22466

NCBI Accession No.

NP_057057.2

Alternative Names

Galanin peptides preproprotein, GALN, GLNN, GMAP

PRODUCT SPECIFICATION

Molecular Weight

13.9 kDa (127aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT

Purity

> 90% 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

Galanin peptides preproprotein, also known as GAL, is localized in brain pathways involved in both cognition and affect, and may inhibit learning and memory by inhibiting neurotransmitter release and neuronal firing rate. It modulates a variety of physiological processes including cognition/memory, sensory/pain processing, neurotransmitter/hormone secretion, and feeding behavior. GAL is upregulated in primary afferent and sympathetic neurones and may be involved in the development of sympathetic perineuronal baskets (rings) following nerve injury. Recombinant human GAL protein, fused to His-tag at N-terminus, was expressed in E. coli

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and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>ASAGLWS PAKEKRGWTL NSAGYLLGPH AVGNHRSFSD KNGLTSKREL
RPEDDMKPGS FDRSIPENNI MRTIIEFLSF LHLKEAGALD RLLDLPAAAS SEDIERS

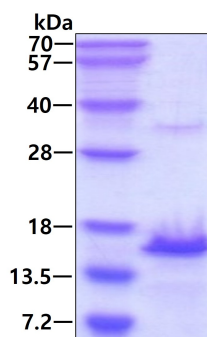
General References

Steiner R A., et al. (2001) Proc Natl Acad Sci uSA. 4184-4189

Kleine B., et al. (2001) Mol Hum Reprod. 7:379-385.

DATA

SDS-PAGE



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