

Recombinant human AgRP protein

Catalog Number: ATGP3018

PRODUCT INFORMATION

Expression system

E.coli

Domain

21-132aa

UniProt No.

O00253

NCBI Accession No.

NP_001129

Alternative Names

Agouti-related protein, Agouti-related protein, AGRT, ART, ASIP2

PRODUCT SPECIFICATION

Molecular Weight

15.1 kDa (137aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 20% glycerol, 1mM DTT

Purity

> 85% 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

AGRP, also known as agouti-related protein also called agouti-related peptide, is a neuropeptide produced in the brain by the AGRP/NPY neuron. It is only synthesised in NPY-containing cell bodies located in the ventromedial part of the arcuate nucleus in the hypothalamus. AGRP is co-expressed with Neuropeptide Y and works by increasing appetite and decreasing metabolism and energy expenditure. It is one of the most potent and long-lasting of appetite stimulators. Recombinant human AGRP, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSHM>AQMGL APMEGIRRPD QALLPELPGL GLRAPLKKTT AEQAEEDLLQ
EAQALAEVLD LQDREPRSSR RCVRLHESCL GQQVPCCDPC ATCYCRFFNA FCYCRKLGTA MNPCSRT

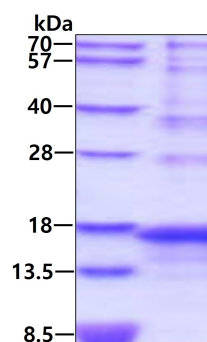
General References

Xiao E, Xia-Zhang L, et al.(2003). Endocrinology. 144(5):1736-41.

Creemers JW, Pritchard LE, et al. (2006). Endocrinology. 147(4):1621-31.

DATA

SDS-PAGE



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