## **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 21-132aa

**UniProt No.** 000253

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.



#### **Amino acid Sequence**

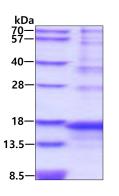
<MGSSHHHHHH SSGLVPRGSH MGSHM>AQMGL APMEGIRRPD QALLPELPGL GLRAPLKKTT AEQAEEDLLQ EAQALAEVLD LQDREPRSSR RCVRLHESCL GQQVPCCDPC ATCYCRFFNA FCYCRKLGTA MNPCSRT

#### **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.