Human AgRP / AGRP Protein (His Tag)

Catalog Number: **10070-H08H**

Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

AGRT; ART; ASIP2; Agrt; Art

Protein Construction:

A DNA sequence encoding the human AgRP (NP_001129.1) (Met 1-Thr 132) was expressed,with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per μg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: Ala 21

Molecular Mass:

The recombinant human AgRP consists of 123 amino acids and has a calculated molecular mass of 14 kDa. The apparent molecular mass of rh AgRP is approximately 16-19 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.2

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

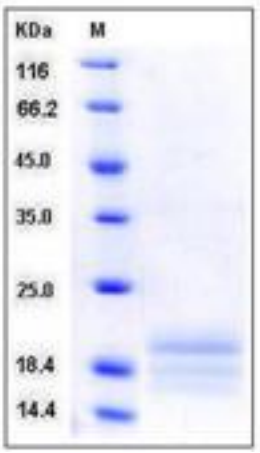
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Agouti Related Protein (AGRP, or AGRT), is an endogenous antagonist of the melanocortin receptors MC3R and MC4R found in the hypothalamus and exhibits potent orexigenic activity. AGRP can act as a competitive antagonist to proopiomelanocortin (POMC)-derived peptides at the melanocortin-4 receptor (MC4R), and that this homeostatic mechanism is important as a means of coordinating appetite with perceived metabolic requirement. AGRP is upregulated by fasting while intracerebroventricular injections of synthetic AGRP lead to increased appetite and food intake. Thus, AGRP is a powerful orexigenic peptide that increases food intake when ubiquitously overexpressed or when administered centrally.

References

1.Ilnytska O, *et al*. (2008) The role of the Agouti-Related Protein in energy balance regulation. Cell Mol Life Sci. 65(17): 2721-31.
2.Pritchard LE, *et al.* (2005) Agouti-related protein: more than a melanocortin-4 receptor antagonist? Peptides. 26(10): 1759-70.
3.Sttz AM, *et al.* (2005) The agouti-related protein and its role in energy homeostasis. Peptides. 26(10): 1771-81.