

Recombinant Mouse AGRP Protein (Ser82-Thr131), HlgG1 Fc-tagged

Cat. No. AGRP-814M **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Mouse AGRP Protein (NP_031453.1) (Ser82-Thr131) was produced by HEK293 Cells expression system. This protein was expressed with the Fc region of human IgG1 at the N-terminus.

Species Mouse

Source HEK293

ProteinLength Ser82-Thr131

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.

Predicted N Terminal Glu

Form Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

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Molecular Mass	The recombinant mouse Agrp consists 310 amino acids and predicts a molecular mass of 34.1 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 80 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	Agrp agouti related protein [Mus musculus]
Official Symbol	AGRP
Synonyms	AGRP; agouti related protein; Art; Agrt;
Gene ID	11604

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mRNA Refseq [NM_007427](#)

Protein Refseq [NP_031453](#)

UniProt ID [P56473](#)

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