Recombinant Human ASIP Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ASIP-4038H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ASIP MS Standard C13 and N15-labeled recombinant protein (NP_001663) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	In mice, the agouti gene encodes a paracrine signaling molecule that causes hair follicle melanocytes to synthesize pheomelanin, a yellow pigment, instead of the black or brown pigment, eumelanin. Pleiotropic effects of constitutive expression of the mouse gene include adult-onset obesity, increased tumor susceptibility, and premature infertility. This gene is highly similar to the mouse gene and encodes a secreted protein that may (1) affect the quality of hair pigmentation, (2) act as a pharmacological antagonist of alpha-melanocyte-stimulating hormone, (3) play a role in neuroendocrine aspects of melanocortin action, and (4) have a functional role in regulating lipid metabolism in adipocytes.
Molecular Mass	14.52 kDa
AA Sequence	MDVTRLLLATLLVFLCFFTANSHLPPEEKLRDDRSLRSNSSVNLLDVPSVSIVALNKK SKQIGRKAAEKKRSSKKEASMKKVVRPRTPLSAPCVATRNSCKPPAPACCDPCASC QCRFFRSACSCRVLSLNCTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

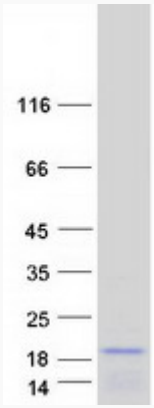
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Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	ASIP agouti signaling protein [Homo sapiens (human)]
Official Symbol	ASIP
Synonyms	ASIP; agouti signaling protein; ASP; AGSW; AGTI; AGTIL; SHEP9; agouti-signaling protein; agouti signaling protein, nonagouti homolog; agouti switch protein; nonagouti homolog
Gene ID	434
mRNA Refseq	NM_001672
Protein Refseq	NP_001663
MIM	600201
UniProt ID	P42127

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SDS-PAGE	

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