



Recombinant *Macaca mulatta* (Rhesus macaque) Agouti-signaling protein (ASIP)

Product Code	CSB-BP002212MOW
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	A1YL67
Product Type	Recombinant Protein
Immunogen Species	<i>Macaca mulatta</i> (Rhesus macaque)
Purity	≥85% (SDS-PAGE)
Sequence	HLPPEEKL RDDRSLRSNS SVNLLDFPSV SIMALNKNSK EISRKEAEKK RSSKKEASKM KVARPRTPLS APCVATRDSC KPPAPACCDP CASCQCRFFR SACSCRVLSL NC
Source	Baculovirus
Target Names	ASIP
Protein Names	Recommended name: Agouti-signaling protein Short name= ASP Alternative name(s): Agouti switch protein
Expression Region	23-132
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life



of lyophilized form is 12 months at -20°C/-80°C.