

Active Recombinant Mouse nonagouti Protein

Cat. No. nonagouti-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse ASIP/Agouti Protein (His23-Cys131) without tag was expressed in Mouse myeloma cell line.
Species	Mouse
Source	Mouse myeloma cell
ProteinLength	23-131 a.a.
Description	Involved in the regulation of melanogenesis. The binding of ASP to MC1R precludes alpha-MSH initiated signaling and thus blocks production of cAMP, leading to a down-regulation of eumelanogenesis (brown/black pigment) and thus increasing synthesis of pheomelanin (yellow/red pigment). Causes hair follicle melanocytes to synthesize phaeomelanin instead of black or brown pigment eumelanin and produces hairs with a subapical yellow band on an otherwise black or brown background when expressed during the mid-portion of hair growth.
Bio-activity	Measured by its ability to inhibit alpha-MSH induced eumelanin production in B16F1 mouse melanoma cells. The ED50 for this effect is 0.8-4 µg/mL.
Molecular Mass	12 kDa
N-terminal Sequence Analysis	His23

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Endotoxin	< 0.10 EU/μg of the protein by the LAL method.
Purity	> 90% by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 500 μg/mL in PBS.

GENE INFORMATION

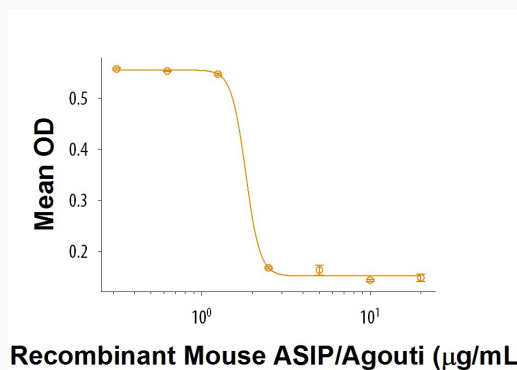
Gene Name	a nonagouti [Mus musculus (house mouse)]
Official Symbol	a
Synonyms	a; nonagouti; agouti-signaling protein; agouti coat color protein; agouti signal protein; agouti switch protein; non-agouti; As; ASP; ago; A; ASIP
Gene ID	50518
mRNA Refseq	NM_015770
Protein Refseq	NP_056585
UniProt ID	Q03288

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**Recombinant Mouse
ASIP/Agouti Protein
Bioactivity**



Recombinant Mouse ASIP/Agouti inhibits alpha-MSH induced eumelanin production in B16F1 mouse melanoma cells. The ED50 for this effect is 0.8-4 µg/mL.

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