

Recombinant Mouse α Protein, Myc/DDK-tagged

Cat. No. a-1445M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length nonagouti (α), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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 pheomelanin 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.
Molecular Mass	14.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μ g/mL as determined by microplate BCA method

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Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name [a nonagouti \[Mus musculus \(house mouse\) \]](#)

Official Symbol [a](#)

Synonyms a; nonagouti; As; ASP; ago; A; ASIP; agouti-signaling protein; agouti coat color protein; agouti signal protein; agouti switch protein; non-agouti

Gene ID [50518](#)

mRNA Refseq [NM_015770](#)

Protein Refseq [NP_056585](#)

UniProt ID [Q03288](#)

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