

Agouti-signaling Protein, Bovine, Recombinant (His)

General Information

Synonyms:	Agouti switch protein;ASP;Agouti-signaling protein;ASIP
Protein Construction:	23-133 aa
Species:	Bovine
Expression Host:	Baculovirus Insect Cells
Accession:	Q29414
Molecular Weight:	14.9 kDa (predicted)
AA Sequence:	HLAPEEKPRDERNLKNNSSMNLDFPSVSIVALNKKSKKISRNEAEKKKRPSKRKAPMKNVARTRPPPTPCV ATRDCKPPAPACCDPCAFCQCRFFRSACSCRVLNPTC

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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).

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