ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

**Cat#** **SP-52274-5**
**Description**: a-MSH
**Sequence**: AC-Ser-tyr-ser-met-glu-his-phe-arg-trp-gly-lys-pro-val-NH2; MW 1664.9
**Size:** 5 mg
**Purity**: >95%
**Store**: Desiccated at -20oC.

*All peptides are for in vitro research use only.*

The melanocyte-stimulating hormones (collectively referred to as MSH or intermedins) are a class of peptide hormones that in nature are produced by cells in the intermediate lobe of the pituitary gland. They stimulate the production and release of melanin (melanogenesis) by melanocytes in skin and hair. MSH signals to the brain have effects on appetite and sexual arousal.

Melanocyte-stimulating hormone belongs to a group called the melanocortins. This group includes ACTH, alpha-MSH, beta-MSH and gamma-MSH; these peptides are all cleavage products of a large precursor peptide called pro-opiomelanocortin (POMC). Alpha-MSH is the most important melanocortin for pigmentation.

The different melanocyte-stimulating hormones have the following amino acid sequences:

| | |
|---|---|
| α-MSH: | Ac-Ser-Tyr-Ser-Met-Glu-His-Phe-Arg-Trp-Gly-Lys-Pro-Val |
| β-MSH (human): | Ala-Glu-Lys-Lys-Asp-Glu-Gly-Pro-Tyr-Arg-Met-Glu-His-Phe-Arg-Trp-Gly-Ser-Pro-Pro-Lys-Asp |
| β-MSH (porcine): | Asp-Glu-Gly-Pro-Tyr-Lys-Met-Glu-His-Phe-Arg-Trp-Gly-Ser-Pro-Pro-Lys-Asp |
| γ-MSH: | Tyr-Val-Met-Gly-His-Phe-Arg-Trp-Asp-Arg-Phe-Gly |

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**Related items**

Catalog# ProdDescription

SP-100505-1 β- MSH, porcine [Asp-Glu-Gly-Pro-Tyr-Lys-Met-Glu-His-Phe-Arg-Trp-Gly-Ser-Pro-Pro-Lys-Asp (MW: 2176.4)]
SP-100506-5 γ2 - MSH (41 - 58), amide [Tyr-Val-Met-Gly-His-Phe-Arg-Trp-Asp-Arg-Phe-Gly-NH2 (MW: 1569.82)]
SP-100507-5 [Lys0] - γ - 1 - MSH (41 - 58), amide [Lys-Tyr-Val-Met-Gly-His-Phe-Arg-Trp-Asp-Arg-Phe-Gly-NH2; MW: 1641.1]
SP-100510-1 VA - β - MSH, Lipotropin - γ, Proopiomelanocortin – derived (AA: Val-Ala-Ala-Glu-Lys-Lys-Asp-Glu-Gly-Pro-Tyr-Arg-Met-Glu-His-Phe-Arg-Trp-Gly-Ser-Pro-Pro-Lys-Asp) (MW: 2831.19)
SP-101846-5 Delta-MSH (AA: Ser-Met-Glu-Val-Arg-Gly-Trp) (MW: 863.99)
SP-101847-5 γ-MSH (3-8) [Met-Gly-His-Phe-Arg-Trp (MW: 832.98)]
SP-101848-1 β-MSH, monkey [Asp-Glu-Gly-Pro-Tyr-Arg-Met-Glu-His-Phe-Arg-Trp-Gly-Ser-Pro-Pro-Lys-Asp (MW: 2204.41)]
SP-101849-1 [Tyr9]- β-MSH (porcine); (Tyr49)-β-Lipotropin (41-58) (porcine) [Asp-Glu-Gly-Pro-Tyr-Lys-Met-Glu-Tyr-Phe-Arg-Trp-Gly-Ser-Pro-Pro-Lys-Asp; MW 2202.43]
SP-103045-5 α-Melanocyte Stimulating Hormone (11-13)(MSHa) [Lys-Pro-Val-NH2 (MW: 341.46)]
SP-103046-5 α-Melanocyte Stimulating Hormone [Acetyl-D-Lys11, D-Val13] (11-13) (MSHa) [Ac-D-Lys-Pro-D-Val-NH2
SP-103047-5 α-Melanocyte Stimulating Hormone, acetylated-[D-Val13] (11-13) (MSHa) [Ac-Lys-Pro-D-Val-NH2 (MW: 383.49)]
SP-51772-5 [Mle4, D-Phe7] MSH NDP- MSH Melanotan I [Ac-Ser-Try-Ser-Mle-Glu-His-D-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH2
SP-52274-5 a-MSH [AC-Ser-tyr-ser-met-glu-his-phe-arg-trp-gly-lys-pro-val-NH2; MW 1664.9]
SP-52275-1 MSH, Human [Ala-Glu-Lys-Lys-Asp-Glu-Gly-Pro-Tyr-Arg-Met-Glu-His-Phe-Arg-Trp-Gly-Ser-Pro-Pro-Lys-Asp-OH;
SP-52276-1 y-1-MSH [Tyr-Val-Met-Gly-His-Phe-Arg-Trp-Asp-Arg-Phe-NH2; MW 1512.8]
SP-52277-1 y-3-MSH [Tyr-Val-Met-Gly-His-Phe-Arg-Trp-Asp-Arg-Phe-Gly-Arg-Arg-Asn-Gly-Ser-Ser-Ser-Ser-Gly-Val-Gly-Gly-Ala-Ala-Gln-OH; MW 2943.2]
SP-58173-5 α-Melanocyte Stimulating Hormone [Met5, Pro6, D-Phe7, D-Trp9, Phe10] (5-13) (MSHa) [Met-Pro-D-Phe-Arg-D-Trp-Phe-Lys-Pro-Val-NH2 (MW: 1206.53)]
SP-86549-5 α-MSH, Free Acid [Ac-Ser-Tyr-Ser-Met-Glu-His-Phe-Arg-Trp-Gly-Lys-Pro-Val (MW: 1665.91)]
SP-86550-5 [Des-Acetyl]-a-MSH [Ser-Tyr-Ser-Met-Glu-His-Phe-Arg-Trp-Gly-Lys-Pro-Val- NH2; MW: 1622.88]
SP-88486-5 Ac-[Lys0,Nle3]-g2-MSH amide [Ac-Lys-Tyr-Val-Nle-Gly-His-Phe-Arg-Trp-Asp-Arg-Phe-Gly-NH2 (MW: 1722.00)]
SP-88487-5 DTrp-Gamma MSH (AA: Tyr-Val-Met-Gly-His-Phe-Arg-D-Trp-Asp-Arg-Phe-Gly) (MW: 1570.81)
SP-88488δ-MSH [Tyr-Val-Met-Gly-His-Phe-Arg-Trp-Asp-Arg-Phe-Gly (MW: 1570.81)]
SP-88489-5 MSH Release Inhibiting Factor, amide (AA: Pro-Leu-Gly-NH2) (MW: 284.36)
SP-88490-1 Ac- [Nle4,DPhe7] a-MSH (4-10), amide [Ac-Nle-Glu-His-D-Phe-Arg-Trp-Gly-NH2 (MW: 985.12)]
SP-88491-5 [Ac-Cys4, DPhe7, Cys10] a-MSH (4-13), amide [Ac-Cys-Glu-His-D-Phe-Arg-Trp-Cys-Lys-Pro-Val-NH2;
SP-88492-5 [D-Phe7] a-MSH, amide [Ac-Ser-Tyr-Ser-Met-Glu-His-D-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH2; MW: 1664.92]
SP-88493-5 [Lys0] g-1-MSH, amide [Lys-Tyr-Val-Met-Gly-His-Phe-Arg-Trp-Asp-Arg-Phe-NH2; MW: 1640.95]
SP-88494-5 [Nle4] a-MSH, amide [Ac-Ser-Tyr-Ser-Nle-Glu-His-Phe-Arg-Trp-Gly-Lys-Pro-Val- NH2; MW 1646.88]

**SP-52274-5** 120227A

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