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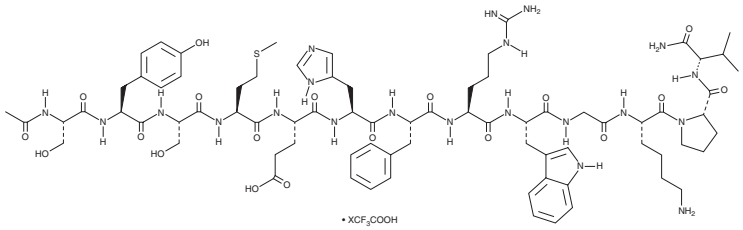
PRODUCT INFORMATION

α-MSH (human, mouse, rat, porcine, bovine, ovine) (trifluoroacetate salt)

Item No. 29923

CAS Registry No.: 171869-93-5
Synonyms: α-Melanocyte-stimulating Hormone, Ac-SYSMEHFRWGKPV-NH_2
MF: $C_{77}H_{109}N_{21}O_{19}S \bullet XCF_3COOH$
FW: 1,664.9
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

α-MSH (human, mouse, rat, porcine, bovine, ovine) (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the α-MSH (human, mouse, rat, porcine, bovine, ovine) (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. α-MSH (human, mouse, rat, porcine, bovine, ovine) (trifluoroacetate salt) is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of α-MSH (human, mouse, rat, porcine, bovine, ovine) (trifluoroacetate salt) in these solvents is approximately 25 and 10 mg/ml, respectively.

α-MSH (human, mouse, rat, porcine, bovine, ovine) (trifluoroacetate salt) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, α-MSH (human, mouse, rat, porcine, bovine, ovine) (trifluoroacetate salt) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. α-MSH (human, mouse, rat, porcine, bovine, ovine) (trifluoroacetate salt) has a solubility of approximately 0.16 mg/ml in a 1:5 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

α-Melanocyte-stimulating hormone (α-MSH) is a 13-amino acid peptide hormone produced by post-translational processing of proopiomelanocortin (POMC) in the pituitary gland, as well as in keratinocytes, astrocytes, monocytes, and gastrointestinal cells.[1] It is an agonist of melanocortin receptor 3 (MC3R) and MC4R that induces cAMP production in Hepa cells expressing the human receptors (EC_{50}s = 0.16 and 56 nM, respectively).[2] α-MSH (100 pM) reduces *S. aureus* colony formation and *C. albicans* germ tube formation *in vitro*.[3] It inhibits endotoxin-, ceramide-, TNF-α-, or okadaic acid-induced activation of NF-κB in U937 cells.[1] α-MSH reduces IL-6- or TNF-α-induced ear edema in mice.[4] It also prevents the development of adjuvant-induced arthritis in rats and increases survival in a mouse model of septic shock. Increased plasma levels of α-MSH are positively correlated with delayed disease progression and reduced death in patients with HIV.[1]

References

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2. Miwa, H., Gantz, I., Konda, Y., *et al. J. Pharmacol. Exp. Ther.* **273(1)**, 367-372 (1995).
3. Cutuli, M., Cristiani, S., Lipton, J.M., *et al. J. Leukoc. Biol.* **67(2)**, 233-239 (2000).
4. Lipton, J.M., Ceriani, G., Macaluso, A., *et al. Ann. N.Y. Acad. Sci.* **25(741)**, 137-148 (1994).

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