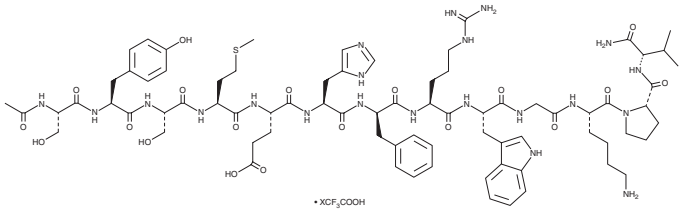
PRODUCT INFORMATION

(D-Phe^7)-α-MSH (trifluoroacetate salt)

Item No. 41730



Formal Name:	(4S,7S,10R,13S,16S,22S)-7-((1H-imidazol-5-yl)methyl)-16-((1H-indol-3-yl)methyl)-26-amino-22-((S)-2-(((S)-1-amino-3-methyl-1-oxobutan-2-yl)carbamoyl)pyrrolidine-1-carbonyl)-10-benzyl-13-(3-guanidinopropyl)-4-((2S,5S,8S,11S)-8-(4-hydroxybenzyl)-5,11-bis(hydroxymethyl)-2-(2-(methylthio)ethyl)-4,7,10,13-tetraoxo-3,6,9,12-tetraazatetradecanamido)-5,8,11,14,17,20-hexaoxo-6,9,12,15,18,21-hexaazahexacosanoic acid, trifluoroacetate salt
Synonym:	(D-Phe^7)-α-Melanocyte-stimulating Hormone
Peptide Sequence:	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

(D-Phe7)-α-Melanocyte-stimulating hormone ((D-Phe^7)-α-MSH) (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the (D-Phe^7)-α-MSH (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. (D-Phe^7)-α-MSH (trifluoroacetate salt) is soluble (≥10 mg/ml) in DMSO and sparingly soluble (1-10 mg/ml) in ethanol.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of (D-Phe^7)-α-MSH (trifluoroacetate salt) can be prepared by directly dissolving the solid in aqueous buffers. (D-Phe^7)-α-MSH (trifluoroacetate salt) is soluble (≥10 mg/ml) in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

(D-Phe^7)-α-MSH is a peptide derivative of α-MSH (Item No. 29923) and an intermediate in the synthesis of α-MSH cyclic analogs.[1]

Reference

1. Nikiforovich, G.V., Sharma, S.D., Hadley, M.E., *et al.* Studies of conformational isomerism in alpha-melanocyte stimulating hormone by design of cyclic analogues. *Biopolymers* **46(3)**, 155-167 (1998).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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