>>**Entry Name: Endorphins**

CAS Registry Number: 60118-07-2
Related CAS Registry Numbers(s): 59004-96-5 59887-17-1 60149-45-3 60893-02-9 69599-55-9 79495-86-6 119306-30-8 138914-57-5
Type of Compound Code(s): AH0450 VV0450 XA5730
H-Tyr-Gly-Gly-Phe-Met-Thr-Ser-Glu-Lys-Ser-Gln-Thr-Pro-Leu-Val-Thr-Leu-Phe-Lys-Asn-Ala-Ile-Ile-Lys-Asn-Ala-Tyr-Lys-Lys-Gly-Glu-OH

General Statement: Struct. shown is that of human β-endorphin
Biological Source: Isol. from pituitary glands
Use/Importance: Endogenous opioid peptides showing analgesic and behavioural effects in mammals. β-Endorphin is generally more potent than α- and γ-endorphins
Other Data: Endorphins have also been isol. from non-mammalian spp., e.g. salmon

>>**Variant: α-Endorphin**

CAS Registry Number: 61512-76-3
Type of Compound Code(s): AH0450 VV0450

>>**Derivative:** α-Endorphin (human)

CAS Registry Number: 59004-96-5
Other Data: Struct. corresponds to amino acid sequence 61-76 of β-lipotropin
Fluka: 45176
Sigma: E8129

>>**Variant: β-Endorphin**
Synonym(s): β-EP

CAS Registry Number: 60617-12-1
Type of Compound Code(s): XA0670
Use/Importance: Potent analgesic
Other Data: Endogenous morphine-like untriacontapeptides present in human, porcine, ovine, and bovine pituitaries, with amino acid sequence identical to the 61-91 portion of their respective β-lipotropins

>>**Derivative:** β-Endorphin (human)
Synonym(s): β_h-Endorphin. 61-91-β-Lipotropin (human)

CAS Registry Number: 61214-51-5
Type of Compound Code(s): AH0450 VV0450
Optical Rotation: $[\alpha]_D^{20}$ –74 (c, 0.3 on 0.3*M* AcOH)
Fluka: 45177
Sigma: E8254

>>**Derivative:** β-Endorphin (sheep)

Type of Compound Code(s): AH0450 VV0450
Other Data: As human form except -27-L-His and -31-L-Gln

>>**Variant: γ-Endorphin**

CAS Registry Number: 61512-77-4
Type of Compound Code(s): AH0450 VV0450
Other Data: Struct. corresponds to amino acid sequence 61-77 of β-lipotropin
Sigma: E8880

References: