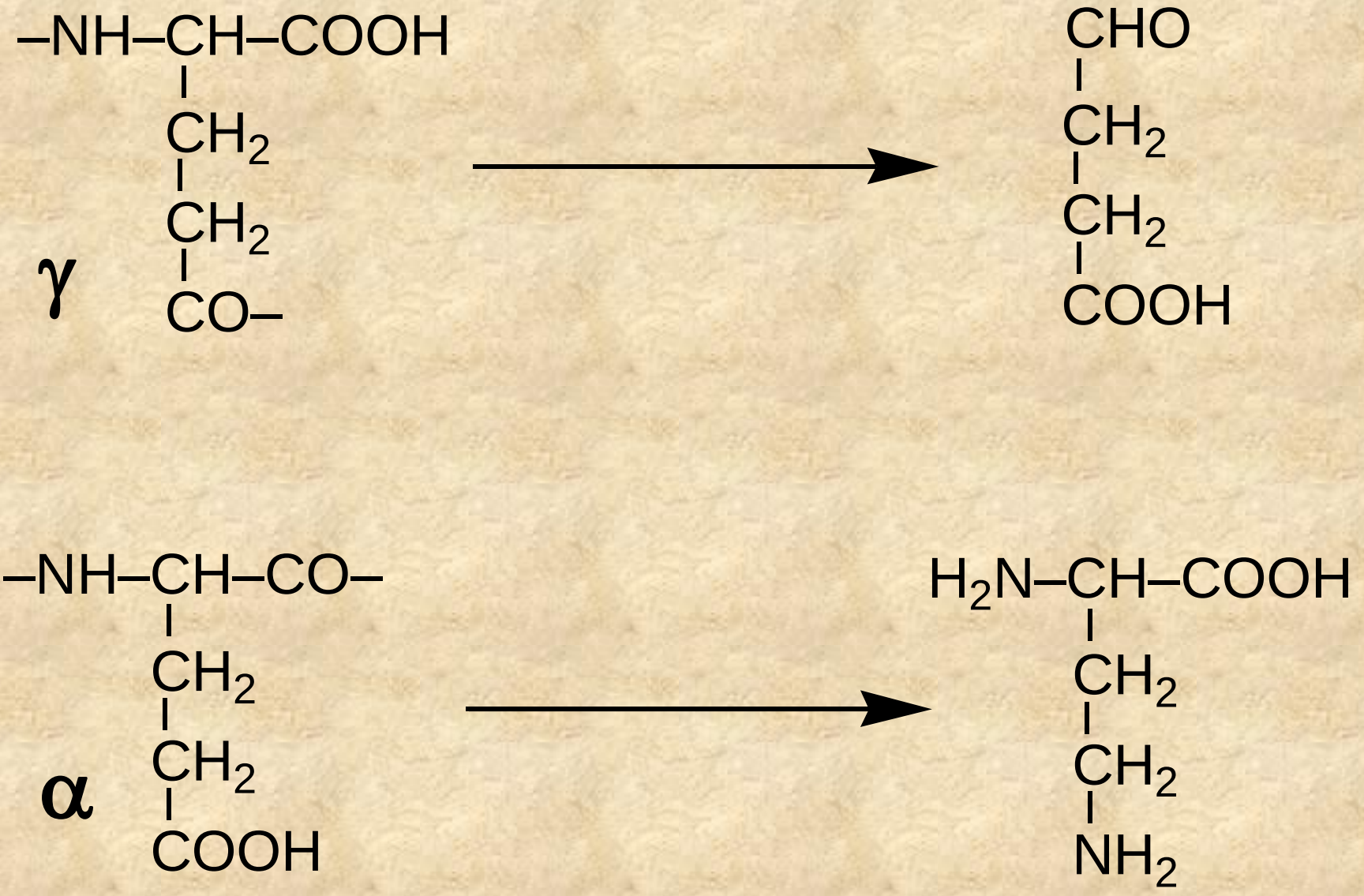
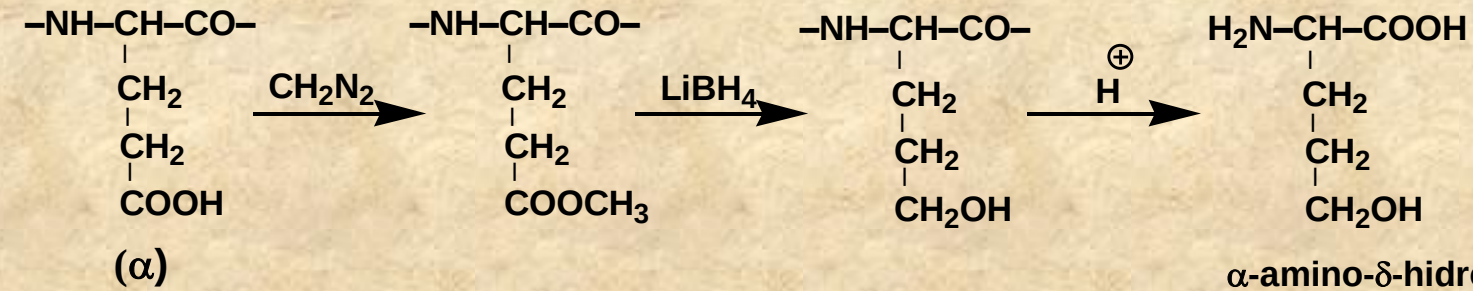
„Harminc Esztendő”

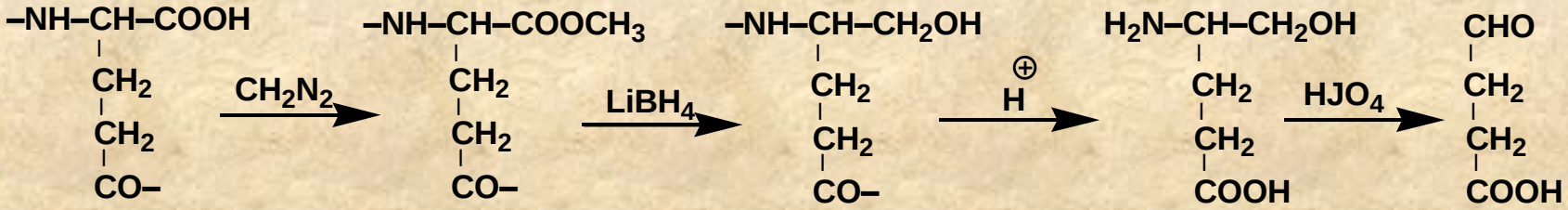
2011 December 9


–NH–CH–COOH
CH2
CH2
γ
CO–
CHO
CH2
CH2
COOH
–NH–CH–CO–
CH2
CH2
α
COOH
H2N–CH–COOH
CH2
CH2
NH2



(α)

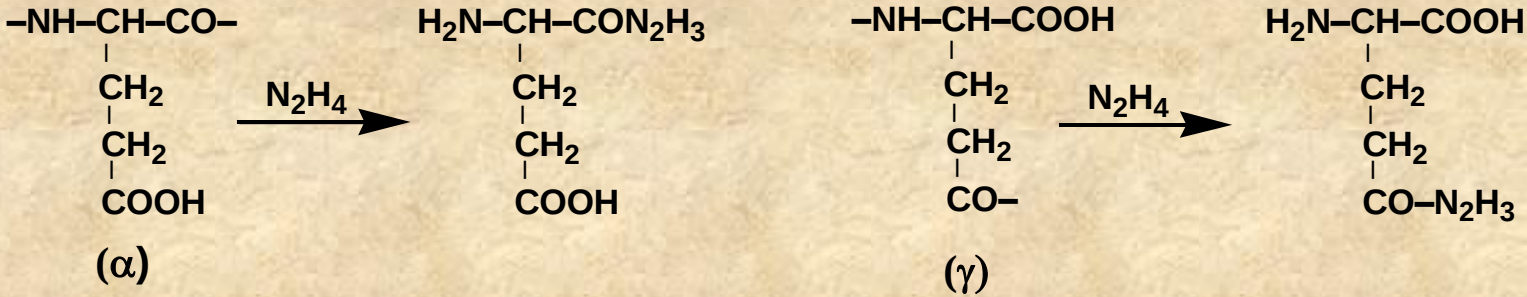
α-amino-δ-hidroxi-valeriansav



(γ)

β-formil-propionsav

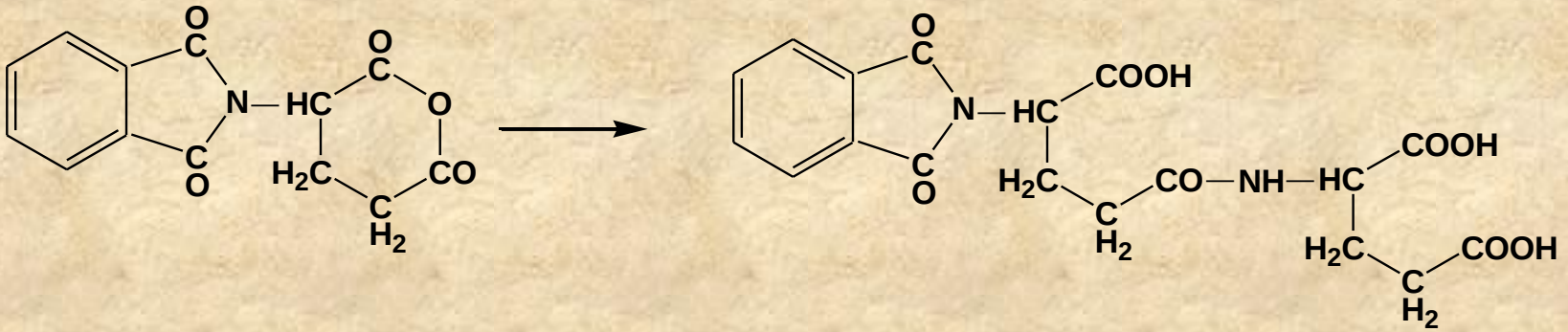
Helyette: (Akabori)



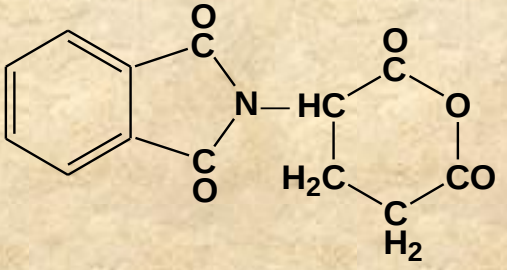
(α)

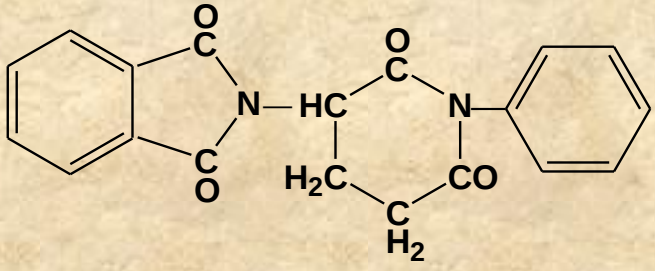
(γ)

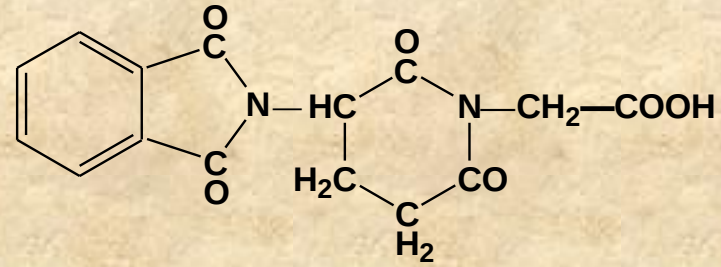
DNP-származék + NH_3 ⟶ sárga vagy barna



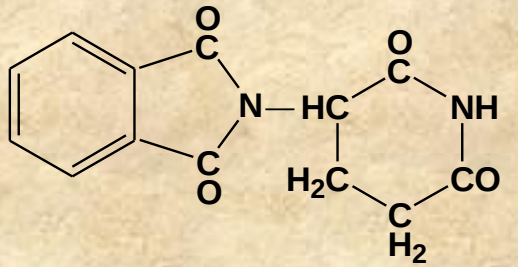
Elkészített vegyületek







ami kimaradt



Thalidomid

Ser–Tyr–Ser–Met–Glu–His–Phe–Arg–Trp

Gly–Lys–Pro–Val–Gly–Lys–Lys–Arg–Arg–Pro–Val–Lys

Val–Tyr–Pro–Asp–Gly–Ala–Glu

Peptid	Aktivitás
Ac–S–Y–S–M–E–H–F–R–W–G–K–P–V–NH_2	2 x 10^{10} U/mmol
H–F–R–W	6 x 10^3 U/mmol
E–H–F–R–W–G	1 x 10^6 U/mmol
E–H–F	1 x 10^4 U/mmol
R–W–G	6 x 10^3 U/mmol
S–Y–S–M	2 x 10^4 U/mmol
K–P–V–NH_2	3 x 10^4 U/mmol
E–H–F———K–P–V–NH_2	1 x 10^5 U/mmol
Y–G–G———K–P–V–NH_2	5 x 10^5 U/mmol

Peptid	*Aktivitás*
H–F–R–W–G	**2 x 10^4 U/mmol**
E–H–F–R–W–G	**2 x 10^5 U/mmol**
M–E–H–F–R–W–G	**1 x 10^6 U/mmol**
S–Y–S–M–E–H–F–R–W–G	**3 x 10^6 U/mmol**

Peptid	*Aktivitás*
Ac–K–P–V–NH_2	3 x 10^4 U/mmol 8 x 10^4 U/mmol
Ac–W–G–K–P–V–NH_2	6 x 10^5 U/mmol
Ac–F–R–W–G–K–P–V–NH_2	5 x 10^6 U/mmol
Ac–E–H–F–R–W–G–K–P–V–NH_2	5 x 10^8 U/mmol
Ac–M–E–H–F–R–W–G–K–P–V–NH_2	3 x 10^9 U/mmol
Ac–S–M–E–H–F–R–W–G–K–P–V–NH_2	7 x 10^9 U/mmol
Ac–Y–S–M–E–H–F–R–W–G–K–P–V–NH_2	1 x 10^{10} U/mmol
Ac–S–Y–S–M–E–H–F–R–W–G–K–P–V–NH_2	2 x 10^{10} U/mmol

Peptid	*Aktivitás*
F–R–W–G	6 x 10^2 U/mmol
Ac–F–R–W–G	6 x 10^3 U/mmol
E–H–F–R–W–G	2 x 10^5 U/mmol
Ac–E–H–F–R–W–G	4 x 10^5 U/mmol
S–Y–S–M–E–H–F–R–W–G	3 x 10^6 U/mmol
Ac–S–Y–S–M–E–H–F–R–W–G	1 x 10^7 U/mmol
K–P–V–NH_2	3 x 10^4 U/mmol
Ac–K–P–V–NH_2	8 x 10^4 U/mmol
F–R–W–G–K–P–V–NH_2	1 x 10^6 U/mmol
Ac–F–R–W–G–K–P–V–NH_2	5 x 10^6 U/mmol

Peptid	Aktivitás
Ac–S–Y–S–M–E–H–F–R–W–G–K–P–V–NH_2	2 x 10^{10} U/mmol
Nle	6 x 10^{10} U/mmol
Met(O)	2 x 10^{9} U/mmol
β- Ala	1 x 10^{10} U/mmol
des-Met	2 x 10^{9} U/mmol
β- Ala	3 x 10^{9} U/mmol
Gly_2	1 x 10^{10} U/mmol
Gly_3	2 x 10^{9} U/mmol
des-Gly	3 x 10^{8} U/mmol

Radioaktív származékok szintézise

C^{14}-el jelzett α-melanotropin

Ac–S–Y–S–M–E–H–F–R–W–(^{14}C)G–K–P–V–NH_2

Specifikus aktivitás: 34 mCi/mMol

Felhasználás: Affinitási kromatográfia
Kötődési vizsgálatok

Triciált α-melanotropin

Ac–S–(3,5-^{3}H)Y–S–M–E–H–F–R–W–G–K–P–V–NH_2

Specifikus aktivitás: 2.8 Ci/mMol

Felhasználás: eloszlás vizsgálata patkány agyban


KEKSZ