



>>Entry Name: α -Mating factor

Synonym(s): *Saccharomyces cerevisiae* Factor α

X-His-Trp-Leu-Gln-Leu-Lys-Pro-

Gly-Gln-Pro-Met-Tyr-OH

Factor a_1 X = H-Trp-
Factor a_2 X = H-

Source/Synthesis: Isol. from *Saccharomyces cerevisiae*

Use/Importance: Mating hormone

>>Variant: α_1 -Mating factor

Synonym(s): Factor α_1

CAS Registry Number: 59401-28-4

Physical Description: Powder

Optical Rotation: $[\alpha]_D^{25} -35.6$ (c, 0.5 in AcOH)

Fluka: 63591

Sigma: T7015

>>Derivative: S-Oxide

Synonym(s): α -Mating factor. Factor α_3

>>Variant: α_2 -Mating factor

Synonym(s): Factor α_2 . α -Substance I_A

CAS Registry Number: 59401-29-5

>>Derivative: S-Oxide

Synonym(s): α_4 -Mating factor. Factor α_4

CAS Registry Number: 61194-03-4

References:

- Stoetzler, D. *et al.*, *Eur. J. Biochem.*, 1976, **65**, 257; **69**, 397, (*isol, struct*)
Sakurai, A. *et al.*, *Agric. Biol. Chem.*, 1977, **41**, 389; 395, (*isol, struct*)
Masui, Y. *et al.*, *Biochem. Biophys. Res. Commun.*, 1977, **78**, 534, (*synth*)
Ciejek, E. *et al.*, *Biochem. Biophys. Res. Commun.*, 1977, **78**, 952, (*synth*)
Sakurai, A. *et al.*, *Pept. Chem.*, 1987, 141, (*props*)
Jelicks, L.A. *et al.*, *Biopolymers*, 1988, **27**, 431, (*pmr, conformn*)