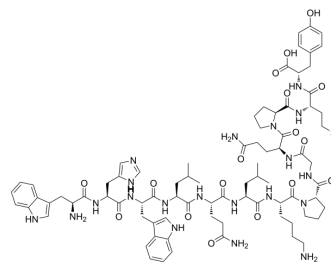


## α-Factor Mating Pheromone, yeast

<b>Cat. No.:</b>	HY-P1482
<b>CAS No.:</b>	59401-28-4
<b>Molecular Formula:</b>	C <sub>82</sub> H <sub>114</sub> N <sub>20</sub> O <sub>17</sub> S
<b>Molecular Weight:</b>	1683.97
<b>Sequence:</b>	Trp-His-Trp-Leu-Gln-Leu-Lys-Pro-Gly-Gln-Pro-Met-Tyr
<b>Sequence Shortening:</b>	WHWLQLKPGQPMY
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	Sealed storage, away from moisture and light
	Powder    -80°C    2 years
	-20°C    1 year



\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

### SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : 50 mg/mL (29.69 mM; Need ultrasonic)					
		Solvent Concentration	Mass			
	<b>Preparing Stock Solutions</b>			<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>1 mM</b>		0.5938 mL	2.9692 mL	5.9383 mL
		<b>5 mM</b>		0.1188 mL	0.5938 mL	1.1877 mL
	<b>10 mM</b>		0.0594 mL	0.2969 mL	0.5938 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: PBS Solubility: 50 mg/mL (29.69 mM); Clear solution; Need ultrasonic					

### BIOLOGICAL ACTIVITY

<b>Description</b>	α-Factor Mating Pheromone, yeast is a tridecapeptide secreted by <i>S. cerevisiae</i> α cells via Ste2p receptor.
<b>IC<sub>50</sub> &amp; Target</b>	Ste2p <sup>[1]</sup>
<b>In Vitro</b>	α-Factor Mating Pheromone, yeast is synthesized constitutively by MATα cells and acting on MATα cells <sup>[1]</sup> . α-Factor Mating Pheromone, yeast inhibits the division cycle of yeast a cells, and competes for binding of <sup>35</sup> S-α-factor to haploid a cells, with K <sub>d</sub> of 0.3 μM, and this binding is related to five temperature-sensitive ste2 mutants, and is thermolabile. However, α-Factor Mating Pheromone, yeast binding activity of other temperature-sensitive mutants (ste4, ste5, ste7, ste11, and ste12) shows no thermolability <sup>[2]</sup> .

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

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## REFERENCES

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- [1]. Naider F, et al. The alpha-factor mating pheromone of *Saccharomyces cerevisiae*: a model for studying the interaction of peptide hormones and G protein-coupled receptors. *Peptides*. 2004 Sep;25(9):1441-63.
- [2]. Jenness DD, et al. Binding of alpha-factor pheromone to yeast a cells: chemical and genetic evidence for an alpha-factor receptor. *Cell*. 1983 Dec;35(2 Pt 1):521-9.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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