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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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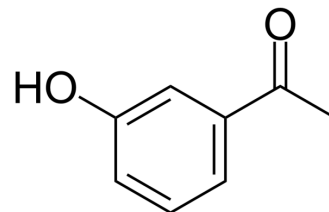
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3-Hydroxyacetophenone

Cat. No.:	HY-Y0603		
CAS No.:	121-71-1		
Molecular Formula:	C ₈ H ₈ O ₂		
Molecular Weight:	136.15		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (734.48 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	7.3448 mL	36.7242 mL	73.4484 mL
	5 mM	1.4690 mL	7.3448 mL	14.6897 mL
	10 mM	0.7345 mL	3.6724 mL	7.3448 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (18.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (18.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (18.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

3-Hydroxyacetophenone (m-Hydroxyacetophenone) is the hydroxy-substituted alkyl phenyl ketone that can be used in synthesis of enantiopure (-)-rivastigmine^{[1][2]}.

REFERENCES

[1]. Katharine Moore Tibbetts, et al. Controlling dissociation of alkyl phenyl ketone radical cations in the strong-field regime through hydroxyl substitution position. J Phys

Chem A. 2014 Sep 18;118(37):8170-6.

[2]. Kiwon Han, et al. Chemoenzymatic synthesis of rivastigmine via dynamic kinetic resolution as a key step. J Org Chem. 2010 May 7;75(9):3105-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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