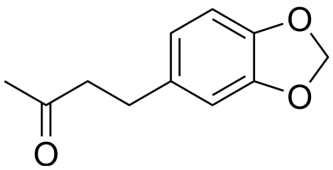
Piperonyl acetone

Cat. No.:	HY-W027872
CAS No.:	55418-52-5
Molecular Formula:	$C_{11}H_{12}O_3$
Molecular Weight:	192.21
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (520.26 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	5.2026 mL	26.0132 mL	52.0264 mL
	5 mM	1.0405 mL	5.2026 mL	10.4053 mL
	10 mM	0.5203 mL	2.6013 mL	5.2026 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (13.01 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (13.01 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (13.01 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Piperonyl acetone is a food additives[1].

REFERENCES

[1]. Wright DJ, et, al. The metabolism of some food additives related to piperonal in the rabbit. Xenobiotica. 1980 Apr;10(4):265-70.

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

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