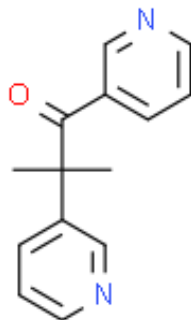


## Product Data Sheet

Cas No.:	54-36-4	Cat. No:	PL14634
Product Name:	Metyrapone		
Product synonym:	美替拉酮;甲吡酮;烟酰吡丙烷;甲双吡丙酮;麦道中白朗;美替拉西酮;2-甲基-1,2-二-3-吡啶-1-丙酮;2-甲基-1,2-二-3-吡啶基-1-丙酮;美替拉酮 USP标准品		
Chemical name:	Metyrapone		
MF:	C14H14N2O	FW:	226.2738
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	O=C(C1=C([H])N=C([H])C([H])=C1[H])C(C([H])([H])[H])(C([H])([H])[H])C1=C([H])N=C([H])C([H])=C1[H]		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

## Product Description

Metyrapone (Su-4885) 是一种有效且具有口服活性的 11β-羟化酶 (11β-hydroxylase) 抑制剂, 可抑制醛固酮 (aldosterone) 的产生, 也是一种细胞自噬 (autophagy) 激活剂。Metyrapone 能抑制内源性肾上腺皮质激素的合成, 也会影响行为和情绪。此外, Metyrapone 可通过下调 mTOR 通路增加自噬过程的效率, 也能与恶臭假单胞菌 (*Pseudomonas putida*) 细胞色素 P-450 (CYP450) 相互作用。Metyrapone 可用于研究库兴氏综合征 (Cushing's syndrome) 和抑郁症。

生物活性	Metyrapone (Su-4885) is a potent and orally active 11β-hydroxylase inhibitor and an autophagy activator, also inhibits the production of aldosterone. Metyrapone inhibits synthesis of endogenous adrenal corticosteroid, decreases glucocorticoid levels, and also affects behavior and emotion. In addition, Metyrapone increases the efficiency of autophagic process via downregulation of mTOR pathway, and interacts with <i>Pseudomonas putida</i> cytochrome P-450. Metyrapone can be used for researching Cushings syndrome and depression.
IC50 & Target[1][2]	11β-hydroxylase, Aldosterone, CYP450, Autophagy
体外研究(In Vitro)	Metyrapone (100?μM; 2 h) hyperactivates autophagy in HepG2, and delays the activation of apoptosis at severe endoplasmic reticulum (ER) stress. has not independently confirmed the accuracy of these methods. They are for reference only.

体内研究(In Vivo)	Metirapone (25 or 50 mg/kg; SC, single dosage) decreases the stress-induced increase in plasma corticosterone levels, significantly impairs acquisition performance at high dosage, and increases open arm activity at low dosage. has not independently confirmed the accuracy of these methods. They are for reference only. Anim
包装储存	Powder -20°C 3 years; 4°C 2 years
溶解度数据	In Vitro: DMSO : 100 mg/mL (441.95 mM; Need ultrasonic)H <sub>2</sub> O : ≥ 38 mg/mL (167.94 mM)