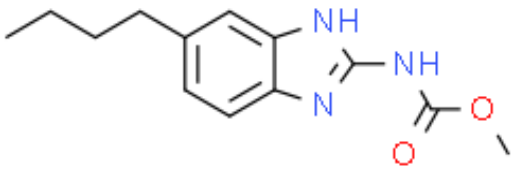
Product Data Sheet

Cas No.:	14255-87-9	Cat. No:	PL07274
Product Name:	Parbendazole		
Product synonym:	帕苯咪唑;虫帕唑;5-丁基-2-苯并咪唑氨基甲酸甲酯;丁苯咪唑;帕苯达唑;帕苯达唑 USP标准品;(5-丁基-1H-苯并咪唑-2-基)氨基甲酸甲酯;5(6)-丁基-2-苯并咪唑氨基甲酸甲酯;丁苯咪酯;丁苯咪胺酯;帕苯咪唑溶液,100PPM		
Chemical name:	Parbendazole		
MF:	C13H17N3O2	FW:	247.2930
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax：	-	Formulation：	-
Solubility :			
SMILES :	O(C([H])([H])[H])C(N([H])C1=NC2C([H])=C([H])C(=C([H])C=2N1[H])C([H])([H])C([H])([H])C([H])([H])C([H])([H])[H])=O		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

Parbendazole 是一种有效的 microtubule 重组抑制剂，能够破坏微管蛋白，EC_{50} 值为 530 nM，具有广谱的驱虫作用。

生物活性	Parbendazole is a potent inhibitor of microtubule assembly, destabilizes tubulin, with an EC 50 of 530?nM, and exhibits a broad-spectrum anthelmintic activity.
IC50 & Target[1][2]	EC50: 530?nM (tubulin)
体外研究(In Vitro)	Parbendazole is a tubulin destabilizer, with an EC50 of 530?nM, and can induce DNA damage. Parbendazole (2-10 μM) inhibits the assembly of microtubules dose-dependently, with an IC50 of 3 μM. Parbendazole (2-20 μM)-treated cells show an complete absence of microtubules in Vero cells. Parbendazole (up to 10 μM) inhibits the growth of CLd-AXE myxamoebae. Parbendazole (2-5 μM) potently inhibits tubulin purified from the wild-type myxamoebae. has not independently confirmed the accuracy of these methods. They are for reference only.
包装储存	Powder -20°C 3 years； 4°C 2 years
溶解度数据	In Vitro: DMSO : 4 mg/mL (16.18 mM; Need ultrasonic)配制储备液