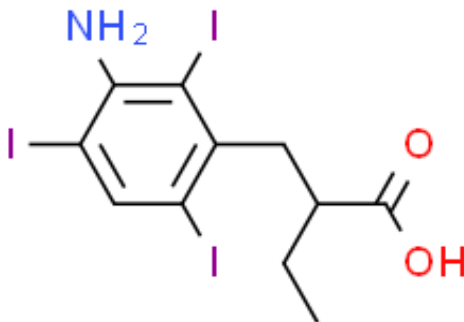


## Product Data Sheet

Cas No.:	96-83-3	Cat. No:	PL05546
Product Name:	Iopanoic acid		
Product synonym:	碘番酸;三碘氨苯乙基丙酸;Iopanoic Acid 碘番酸;碘番酸 标准品;碘泛酸;碘泛酸 EP标准品;2-(3-氨基--2,4,6-三碘苯基)丁酸;2-乙基-3-(3-氨基-2,4,6-三碘苯)丙酸		
Chemical name:	Iopanoic acid		
MF:	C11H12I3NO2	FW:	570.931900024414
Purity:	≥98%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	O=C(C(CC)CC1C(I)=C(N)C(I)=CC=1I)O		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

## Product Description

Iopanoic acid 是一个 5'-Deiodinase 抑制剂，也是一种碘造影剂。

生物活性	Iopanoic acid is an inhibitor of 5-Deiodinase and also an iodinated contrast medium.
IC <sub>50</sub> & Target[1][2]	5-Deiodinase
体外研究(In Vitro)	The thyrotropin-releasing-hormone (TRH)-induced thyrotropin (TSH) release from the pituitary fragments is inhibited by 3,5,3-triiodothyronine (T3) (10 M), by triiodothyroacetic acid (10 to 10 M), and by high concentrations of iodide (10 or 10 M). Iopanoic acid has no significant effect at the concentrations tested. has not independently confirmed the accuracy of these methods. They are for reference only.

体内研究(In Vivo)	lopanoic acid (IOP) administration to pregnant rats during days 18 and 19 postconception does not modify litter size (controls: 11.8±0.5 fetuses/dam, lopanoic acid-treated: 11.6±0.6 fetuses/dam) or body weight at day 20 (controls: 3.27±0.12 g, lopanoic acid-treated: 3.42±0.20 g). lopanoic acid treatment produces a significant blockage of 5-Deiodinase (5D) activity in interscapular brown adipose tissue (IBAT) and brain; in contrast, liver 5D is not modified. 3,5,3-triiodothyronin (T <sub>3</sub> ) content is similar in IBAT and slightly increased in brain and liver nuclei of lopanoic acid-treated fetuses when compare with control fetuses at day 20 (p<0.05). However, when administered to adult rats, lopanoic acid produces a significant reduction in IBAT nuclear T <sub>3</sub> content and plasma T <sub>3</sub> concentration. lopanoic acid inhibition of IBAT 5D activity in fetuses
包装储存	Powder -20°C 3 years; 4°C 2 years
溶解度数据	In Vitro: DMSO : 100 mg/mL (175.15 mM; Need ultrasonic)配制储备液