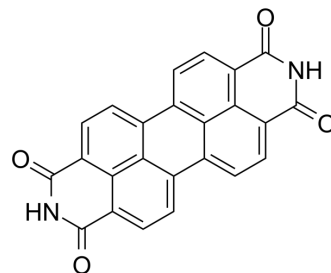


## 3,4,9,10-Perylenetetracarboxylic-diimide

<b>Cat. No.:</b>	HY-D0285		
<b>CAS No.:</b>	81-33-4		
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>10</sub> N <sub>2</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	390.35		
<b>Target:</b>	Fluorescent Dye		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 1.25 mg/mL (3.20 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 1.25 mg/mL (3.20 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

3,4,9,10-Perylenetetracarboxylic-diimide (PTCDI), an organic heteropolycyclic compound, is a dimethylimine that can be used in biological dyes and indicators<sup>[1]</sup>.

### REFERENCES

[1]. Tatsuya Yoshida, et al. Spectral Diffusion of Excitons in 3,4,9,10-Perylenetetracarboxylic-diimide (PTCDI) Thin Films. J Phys Chem B. 2021 Aug 19;125(32):9350-9356.

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

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