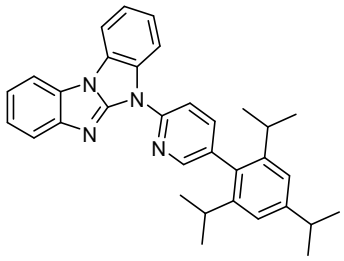
Highly efficient blue thermally activated delayed fluorescence emitters based on symmetrical and rigid oxygen-bridged boron acceptors

Product Specifications

LT-N4186 PPBI

CAS No.	2363173-81-1
Grade	Sublimed,>99%(HPLC)
Formula	$C_{33}H_{34}N_4$
M.W.	486.65 g/mole
HOMO/LUMO	-5.7/-2.0 eV



* *Nature Photonics, volume 13, pages540–546(2019)*

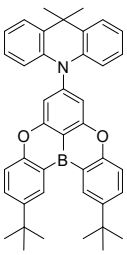
Features

- A longer delayed exciton lifetime in PPBI (2.3 μs) was observed than in DBFPO (1.5 μs).
- The TDBA–Ac device with PPBI host showed a deep-blue colour with CIE coordinates of (0.15, 0.06), FWHM of 48 nm and a maximum EQE of 21.50 ± 0.22%.

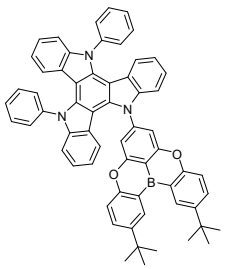
Device Application

Device: ITO/HATCN (7 nm)/TAPC (50 nm)/ DCDPA (10 nm)/ PPBI:20% TADF emitter TDBA–Ac (25 nm)/DBFPO (10 nm)/ TPBi (20 nm)/LiF (1.5 nm)/Al (100 nm)

Related products from Lumtec:



LT-N6050 TDBA–Ac



LT-N6051 TDBA–DI

b Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

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