



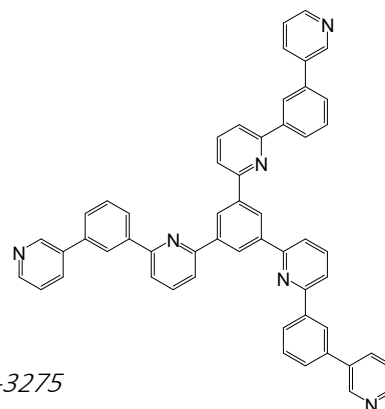
## Pyridine-Containing Electron-Transport Materials for Highly Efficient Blue Phosphorescent OLEDs with Ultralow Operating Voltage and Reduced Efficiency Roll-Off

### Product Specifications

#### LT-N889 Tm3PyP26PyB

<b>CAS No.</b>	1492917-78-8
<b>Grade</b>	Sublimed, > 99%(HPLC)
<b>Formula</b>	$C_{54}H_{36}N_6$
<b>Molecular Weight</b>	768.9 g/mole
<b>Absorption</b>	255 nm (in $CH_2Cl_2$ )
<b>Photoluminescence</b>	357 nm (film)
<b>HOMO/LUMO</b>	-6.35 / -1.89 eV

Reference : *Advanced Functional Materials* (2014), 24(21), 3268-3275



### Features

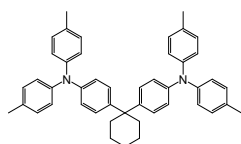
- Tm3PyP26PyB was developed as an ETL of the Flrpic-based blue phosphorescent OLEDs.
- Unprecedented low operating voltages of 2.61 and 3.03 V were realized at 1 and 100  $cd\ m^{-2}$ , giving ever highest hp values of 65.8 and 59.7  $lm\ W^{-1}$  and hext values of 24.4% and 25.7%, respectively.

### Device Application

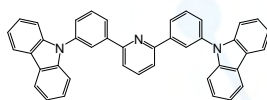
#### The Best Device :

ITO/TPDPES(20 nm)/TAPC(30 nm)/26DCzPPy : 13 wt% Flrpic(10 nm)/Tm3PyP26PyB(50 nm)/LiF(0.5 nm)/Al (100 nm)

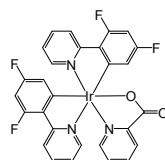
Related products from Lumtec :



LT-N137 TAPC



LT-N491 26DCzPPy



LT-E607 FlrPic

LiF

LT-E001 LiF

Al

LT-E005 Al