

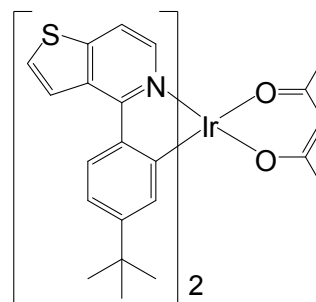


## High Efficient Yellow Emitting Material for Solution Process or Vapor Deposition Organic Light-Emitting Devices

### Product Specifications

#### LT-N758 PO-01-TB

|                          |                           |
|--------------------------|---------------------------|
| <b>Grade</b>             | Sublimed, > 99% (HPLC)    |
| <b>Formula</b>           | $C_{39}H_{39}IrN_2O_2S_2$ |
| <b>Molecular Weight</b>  | 824.21 g/mole             |
| <b>Absorption</b>        | 448 nm (in $CH_2Cl_2$ )   |
| <b>Photoluminescence</b> | 562 nm (in $CH_2Cl_2$ )   |
| <b>HOMO/LUMO</b>         | 5.2 eV/3.0 eV             |



Reference : TW I395804 , US 8,722,207

*Organic Electronics*, 2012, 13, 2149-2155

### Features

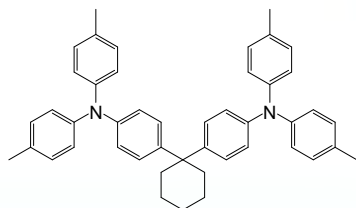
- On fabricating a yellow PHOLED by doping PO-01-TB with host as the emitter, the device achieved a high power efficiency of 62.8 cd/A and an external quantum efficiency of 18.5%.
- By using p-i-n technology with yellow PHOLED, the yellow dopant PO-01-TB achieved a high power efficiency of 97.7 lm/W and an external quantum efficiency of 20.4%.
- PO-01-TB can be used for the solution process OLED, the device achieved a high power efficiency of 35.0 cd/A.

### Device Application

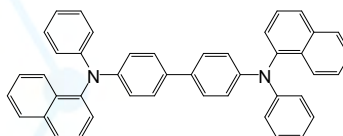
#### The Best Device :

ITO/PEDOT/TAPC(40 nm)/3wt% PO-01-TB:NPB(15 nm)/TmPyPB(50 nm)/LiF(0.8 nm)/Al(120 nm)

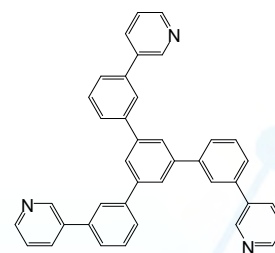
Related products from Lumtec :



LT- N137 TAPC



LT- N101 NPB



LT-N863 TmPyPB