

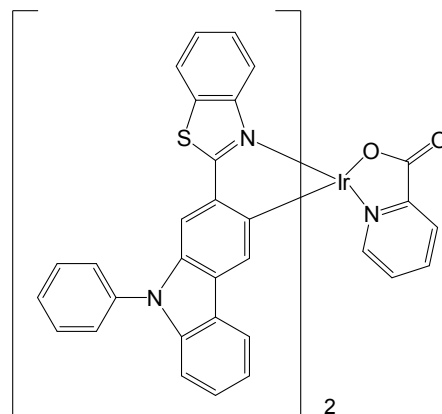


## Phosphorescent organic light-emitting diodes fabricated using iridium complexes with carbazole-based benzothiazole ligands

### Product Specifications

#### LT-N766 Ir(2-BtcPh)<sub>2</sub>(pic)

<b>CAS No.</b>	1452824-22-4
<b>Grade</b>	Sublimed, >99% (HPLC)
<b>Formula</b>	C <sub>56</sub> H <sub>34</sub> IrN <sub>5</sub> O <sub>2</sub> S <sub>2</sub>
<b>Molecular Weight</b>	1065.18 g/mole
<b>Absorption</b>	324 nm (in CH <sub>2</sub> Cl <sub>2</sub> )
<b>Photoluminescence</b>	624 nm (in CH <sub>2</sub> Cl <sub>2</sub> )
<b>TGA</b>	>280 °C(0.5% weight loss)



### Features

- Ir(2-BtcPh)<sub>2</sub>(pic) used to fabricate Red phosphorescent organic light-emitting devices with a maximum efficiency up to 11.4 lm/W (9.8 cd/A).
- By combining the Red phosphorescence of Ir(2-BtcPh)<sub>2</sub>(pic), Blue emission of Firpic, and the yellow-green emission of FPQIrpic, the highly efficient White emission with a maximum efficiency of 28.8 lm/W & 29 cd/A has been achieved.

### Device Application

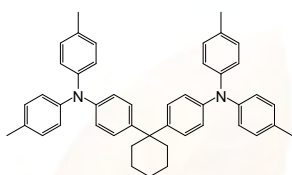
#### The Best Device :

**RED OLED:** ITO/PEDOT:PSS(40 nm)/TAPC(30 nm)/TPBi:TcTa:Ir(2-BtcPh)<sub>2</sub>(pic)(5%)(25 nm)/TSPO1(35 nm)/LiF(1 nm)/Al

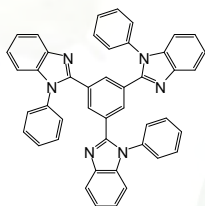
**White OLED:** ITO/PEDOT:PSS(40 nm)/TAPC(20 nm)/mCP:Firpic (3%)(20 nm)/TPBi:FPQIrpic (10%):

Ir(2-BtcPh)<sub>2</sub>(pic) (1%)(5 nm)/TPBi(25 nm)/LiF(1 nm)/Al

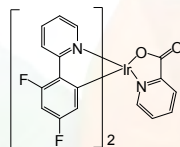
Related products from Lumtec :



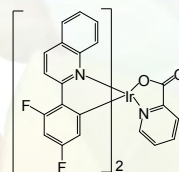
LT-N137 TAPC



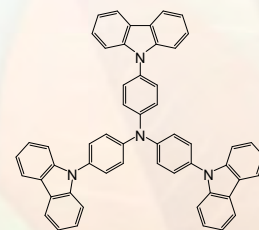
LT-E302 TPBi



LT-E607 Firpic



LT-N765 FPQIrpic



LT-E207 TcTa