



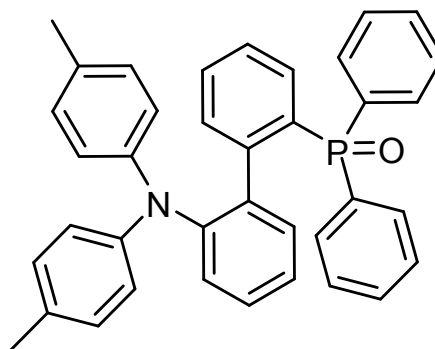
Using an organic molecule with low triplet energy as a host in a highly efficient blue electrophosphorescent device

## Product Specifications

### LT-N4101 POBPmDPA

<b>CAS No.</b>	1579983-04-2
<b>Grade</b>	Sublimed, > 99% (HPLC)
<b>Formula</b>	$C_{38}H_{32}NOP$
<b>Molecular Weight</b>	549.64 g/mole
<b>Absorption</b>	444 nm (in Toluene)
<b>Photoluminescence</b>	458 nm (in 2-MeTHF)

Reference : *Angew. Chem. Int. Ed.* 2014, 53, 2147–2151



## Features

- In a three organic-layer device, the maximum current efficiency of 37 cdA<sup>-1</sup> and power efficiency of 40 lmW<sup>-1</sup> were achieved for the Flr6-based blue PhOLEDs.
- POBPmDPA shows low singlet energy (S1) of 2.80 eV and triplet energy of 2.71 eV can be used as the host material for the blue phosphor (Flr6; T1=2.73 eV)

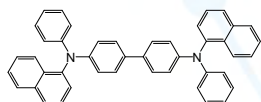
## Device Application

### The Best Device :

ITO/ MoO<sub>3</sub> (10 nm)/NPB(70 nm)/POBPmDPA:Flr6(20 nm)/TmPyPB(35 nm)/LiF(1 nm)/Al

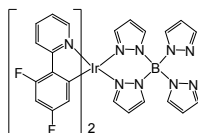
Related products from Lumtec :

MoO<sub>3</sub>

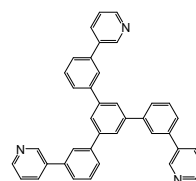


LT-E003 MoO<sub>3</sub>

LT-E101 NPB



LT-N620 Flr6



LT-N863 TmPyPB

LiF

LT-E001 LiF