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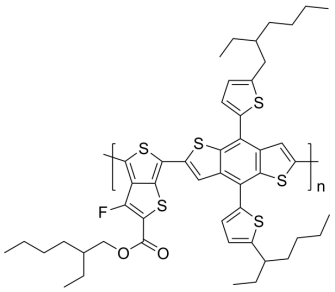
PTB7-Th

Cat. No.:	HY-137292
CAS No.:	1469791-66-9
Molecular Formula:	$(C_{50}H_{61}FO_2S_6)n$
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PTB7-Th is a classic organic photovoltaic (OPV) cell donor polymer that can be added as a dielectric to increase the short-circuit current and fill factor of polymer solar cells, improving the photovoltaic efficiency of the device[1].
In Vitro	PTB7-Th can be doped as a third substance to prepare polymer solar cells. The effect of PTB7-Th on the device performance can be investigated by changing the concentration of PTB7-Th. The short-circuit current and the fill factor of the polymer solar cell were both improved by doping PTB7-Th, which led to the improvement of the device photoelectric conversion efficiency. It has also been shown that the addition of PTB7-Th can broaden the absorption spectrum of the active layer and increase the number of photons absorbed by the active layer, which is beneficial to the enhancement of short-circuit current [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Govinda Lakhotiya, et al. Enhanced performance of PTB7-Th:PCBM based active layers in ternary organic solar cells. RSC Adv. 2019 Mar 6;9(13):7457-7463.

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