

PbS/CdS QDs

Cat. No.:	HY-D1391
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

PbS/CdS QDs

BIOLOGICAL ACTIVITY

Description	PbS/CdS QDs (PbS/CdSe QD) is a fluorescent probe that can be used for in vivo fluorescence imaging in the second near-infrared window ^{[1][2]} .
In Vivo	The 2nd-NIR fluorescence imaging at ca.1300 nm using the PbS/CdS QDs results in the highest signal to background ratio with a low blurring for in vivo imaging ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zhang M, et, al. Bright quantum dots emitting at \approx 1,600 nm in the NIR-IIb window for deep tissue fluorescence imaging. Proc Natl Acad Sci U S A. 2018 Jun 26;115(26):6590-6595.

[2]. Tsukasaki Y, et, al. Synthesis and optical properties of emission-tunable PbS/CdS core-shell quantum dots for in vivo fluorescence imaging in the second near-infrared window. RSC Advances. 2014. Issue 77.

Caution: Product has not been fully validated for medical applications. For research use only.

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