

Allophycocyanin

Cat. No.:	HY-D1815
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

Allophycocyanin

BIOLOGICAL ACTIVITY

Description

Allophycocyanin (APC Dye) is a light-harvesting protein, containing strongly coupled dimers of chromophores. Allophycocyanin serve as a minimal system to examine photosynthetic energy transfer. Allophycocyanin strongly absorbs far-red light (FRL), and expresses during acclimation to low light, likely associates with chlorophyll a-containing photosystem I^[1][^{2]}.

CUSTOMER VALIDATION

- Mol Immunol. 2023 Sep 1;162:84-94.

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REFERENCES

[1]. Moya R, et al. Observation of robust energy transfer in the photosynthetic protein allophycocyanin using single-molecule pump-probe spectroscopy. Nat Chem. 2022 Feb;14(2):153-159.

[2]. Gisriel CJ, et al. Helical allophycocyanin nanotubes absorb far-red light in a thermophilic cyanobacterium. Sci Adv. 2023 Mar 24;9(12):eadg0251.

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

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