

Native Dinophyceae sp. PerCP Protein

Cat. No. PerCP-02D **Lot. No.** (See product label)

SPECIFICATION

Product Overview

PerCP (Peridinin-chlorophyll-protein complex) is isolated from Dinophyceae sp. It has an extremely high extinction coefficient ($350000 \text{ cm}^{-1} \text{ M}^{-1}$), a high quantum efficiency and a large Stokes shift. It is well excited with the Argon laser at 488 nm with its maximum emission peak at 677nm.

H-phrase: H303, H313, H333

Hazard symbol: XN

Intended use: Research Use Only (RUO)

R-phrase: R20, R21, R22

UNSPSC: 12171501

Species Dinophyceae sp.

Description

PerCP protein is commonly used for fluorescent immunolabeling, particularly in applications involving fluorescent-activated cell sorting (FACS). Its cyanine tandem conjugates can be excited with a standard 488 nm laser and emits in the far red at a longer wavelength for multicolor flow cytometric analysis of cells. These multiple emission wavelengths make PerCP- Cyanine conjugates potentially useful fluorochromes for multicolor analysis with FITC, PE and other fluorochromes. PerCP tandem structure may make it more photostable than PerCP alone, which generally photobleaches rapidly with more powerful water-cooled gas lasers. AAT Bioquest offers iFluor protein labeling dyes that are generally brighter and more photostable than the corresponding cyanine dyes of similar wavelengths. iFluor protein labeling dyes are superior alternatives to the cyanine dyes.

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Molecular Mass	35 kDa
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GENE INFORMATION

Official Symbol	PerCP
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Synonyms	PerCP; Peridinin-Chlorophyll-Protein Complex
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Spectrum	
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