

Product Data Sheet

Product Name: PE-Cy5.5

Cat. No.: GC80385

Chemical Properties

Cas. No.

Formula

M.Wt

Solubility

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

PE-Cy5.5

Background

PE-Cy5.5 is a far-red emitting tandem dye designed based on the principle of fluorescence resonance energy transfer (FRET), and is widely used in multicolor flow cytometry. PE-Cy5.5

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

consists of phycoerythrin (PE) as the energy donor and the cyanine dye Cy5.5 as the energy acceptor. Upon excitation by blue or green laser light, PE absorbs energy and transfers it to Cy5.5 via FRET, ultimately resulting in Cy5.5 emitting characteristic far-red fluorescence (Ex/Em = 450-500 nm/698 nm) [1].

In Vitro, PE-Cy5.5 conjugates (0.25-5 µg/mL; 30 min at 4 °C) bind strongly and nonspecifically to mouse DEC205-positive CHO/mDEC205, KIT6/mDEC205, and HEK293/mDEC205 cells in proportion to surface mouse DEC205 expression, do not bind to human DEC205-positive cells, and exhibit stronger binding than other Cy5.5-based conjugates^[1].

References:

[1]. Park CG, et al. PE-Cy5.5 conjugates bind to the cells expressing mouse DEC205/CD205. J Immunol Methods. 2012;384(1-2):184-190.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA