Product Data Sheet

Product Name: APC-Cy7
Cat. No.: GC80394

Chemical Properties

Cas. No.			
Formula		M.Wt	
Solubility		Storage	Store at 4°C, protect from light
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			

APC-Cy7

Background

APC-Cy7 is an APC-tandem fluorochrome (allophycocyanin-cyanine 7) and degradable fluorochrome, with maximum absorption at ~650 nm, peak emission at 767 nm when excited by a 633 nm red laser, and cell-dependent degradation. APC-Cy7 undergoes time-dependent degradation (decoupling) when bound to peripheral blood leukocytes, leading to nonspecific APC channel signal, with degradation cell type-dependent. APC-Cy7 shows reduced degradation when immunolabeled cells have inhibited metabolic activity or are incubated with vitamin C. APC-Cy7 serves as a tandem fluorochrome in multiparametric flow cytometry for detection of leukocyte surface proteins when conjugated to specific antibodies (Ex/Em = 650 nm/778 nm) [1].

Caution: Product has not been fully validated for medical applications. For research use only.
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In Vitro, APC-Cy7 (0-60 min) conjugated to anti-CD45 antibody undergoes time-dependent degradation (decoupling) in human peripheral blood lymphocytes, monocytes, and polymorphonuclear leukocytes, with lymphocyte decoupling increasing from ~5% at 0 min to ~19% at 30 min, while no decoupling occurs on antibody-bound CompBeads unless incubated with unlabeled cells[1].

References:

[1]. Le Roy C, et al. Flow cytometry APC-tandem dyes are degraded through a cell-dependent mechanism. Cytometry A. 2009;75(10):882-890.