
Product Information Sheet

Ordering Information

Product Number:	25306
Product Name:	Cy5DIGE NHS ester
Unit Size:	100 nmoles
Storage Conditions:	Freeze (<-15 °C), Minimize light exposure
Expiration Date:	12 months upon receiving

Chemical and Spectral Properties

Appearance:	Solid
Molecular Weight:	N/A
Soluble In:	DMSO
Excitation Wavelength:	N/A
Emission Wavelength:	N/A

Application Notes

Cy5DIGE NHS ester, an equivalent of Cy5® NHS ester minimal dye, is one of the major colors used for labeling proteins subject to DIGE analysis. Cy5DIGE is commonly used together with C2DIGE and/or Cy3DIGE. Cy2DIGE, C3DIGE and Cy5DIGE are specially designed for precise comparison of protein expression in two or three samples of lysates. Perfect mobility matching and bright dye fluorescence allow the efficient detection and high resolution of minor proteins on 2D gel electrophoresis. Cy2DIGE, C3DIGE and Cy5DIGE are compatible to all imagers capable of detection of Cy2, Cy3, and Cy5 dyes. The gels labeled with Cy2DIGE, C3DIGE and Cy5DIGE are size- and charge-matched fluorescent dyes for detecting protein abundance differences in 2-D Fluorescence Difference Gel Electrophoresis (DIGE). Cy2DIGE, C3DIGE and Cy5DIGE detect up to three prelabeled protein samples and standards on the same 2-D electrophoresis gel. The size- and charge-matched dyes enable co-migration of labeled samples within the gel. They are bright on proteins, allowing the minimal loss of signal during labeling, separation, and scanning. These dyes have minimal spectral overlap, minimizing the crosstalk that commonly contributes to high background. Their pH-insensitive fluorescence allows DIGEs run at a broad pH range. Cy2®, Cy3® and Cy5® are the trademarks of GE Healthcare.