

Product name: DIGE Dye 1

General Data

- Molecular Mass:** Adjusted to that of DIGE Dye 2
- Solubility:** Alcohol, DMF, DMSO, acetonitrile, chloroform
- Insoluble:** Water
- Storage:** Store in absence of light, desiccated and refrigerate

Description

- Amine-reactive, fluorescent label containing one reactive NHS-ester group.

Applications

- Fluorescence Difference Gel Electrophoresis (DIGE).

Advantages

- Perfectly suited for excitation with the 532-nm diode lasers.
- pH-insensitive between pH 4 and pH 9.
- High photostability; e.g. compared to fluorescein.
- Low molecular weight — **DIGE Dye 1** does not add substantial mass to the conjugates.

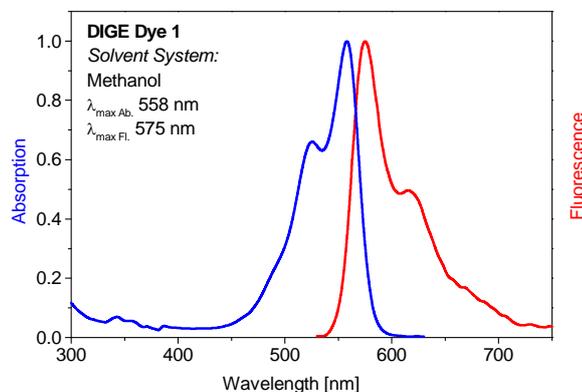
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- Purchase of this product does not imply transfer of related licenses on methods held by Carnegie Mellon University in the US (6043025, 6127134, 6246190, 7566544, and 7598047) and abroad.
- For research use only.

Spectral Data

Sample	Absorption max. [nm]	Extinction Coefficient [M ⁻¹ cm ⁻¹]	Fluorescence max. ¹ [nm]
Free dye in methanol	558	150,000	575

¹ Excitation at 530 nm



Absorption and emission spectrum of **DIGE Dye 1** in methanol