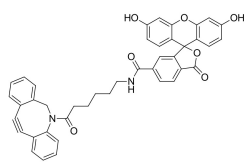
FAM DBCO, 6-isomer (A270213)

Specifications:

Name:	FAM DBCO, 6-isomer
Description:	Fluorescein (FAM) is one of the oldest yet well known fluorescent dyes. This derivative of FAM contains cyclooctyne group (dibenzocyclooctyne, abbreviated as DBCO or ADIBO) for the conjugation with azides via copper-free, strain-promoted azide alkyne cycloaddition (spAAc). FAM DBCO can be used for the labeling of proteins, peptides, nucleic acids, and other molecules containing azide groups. Azides react with DBCO spontaneously upon simple mixing. The reaction does not require any catalysts, and it is very efficient. Fluorescein can be detected using a variety of different instruments.
Absorption Maxima:	494 nm
Extinction Coefficient:	75000 M-1cm-1
Emission Maxima:	520 nm
Fluorescence Quantum Yield:	0.9
CF_{260} :	0.20
CF_{280} :	0.17
Purity:	95% (by 1H NMR and HPLC-MS).
Molecular Formula:	C42H32N2O7
Molecular Weight:	676.71 kDa
Product Form:	Orange solid.
Solubility:	Good in DMF and DMSO.
Storage:	Shipped at room temperature. Upon delivery, store in the dark at -20°C. Avoid prolonged exposure to light. Desiccate.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

Images:



Structure of FAM DBCO, 6-isomer.

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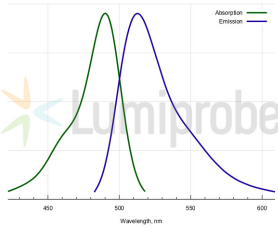
Images continued:



Absorption and emission spectra of FAM.