

Data Sheet (30.05.2014)

Eterneon-350/455 Azide

cyan fluorescent dye

Click Chemistry

Cat.-No.	Amount
mi-C1011S	1 mg
mi-C1011M	5 mg

Only for *in vitro* use!

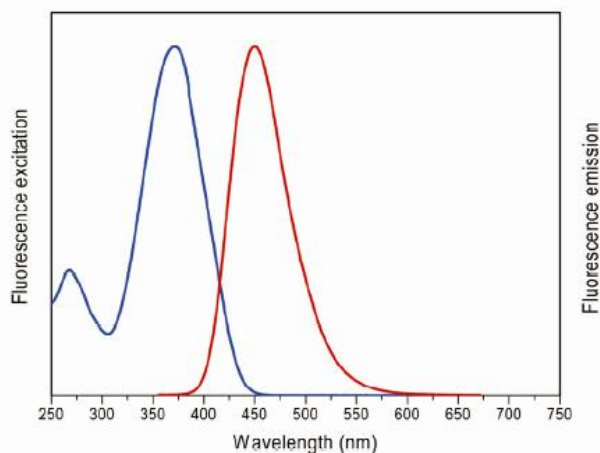
For research only!

Spectroscopic data

Excitation maximum: Ex = 350 nm

Emission maximum: Em = 455 nm

Extinction coefficient: $27300 \text{ cm}^{-1} \text{ M}^{-1}$



Excitation and emission spectrum of Eterneon-350/455

Molecular weight: 456.60 g/ mol

Purity: >97 %

Appearance: yellow solid

Solubility: DMSO, DMF, DCM, Water/Tween® 20 (0.5 %), PBS

Storage conditions: store at 4 °C

Description

The Click reaction is a copper(I)-catalyzed azide-alkyne cycloaddition that permits DNA labeling with very high efficiency. Alkyne-modified DNA can be generated by PCR using alkyne-containing nucleotides (mi-N300X). These alkyne groups allow the attachment of fluorescent and non-fluorescent azides to the PCR product by click chemistry (mi-Click Chemistry Manual, mi-C1101 CuBr, mi-C1102 TBTA-Ligand, mi-C1103 DMSO/t-Butanol Solvent). Custom synthesized oligos which are already alkyne-modified can be ordered from metabion and can be labeled with the marker azides as well.