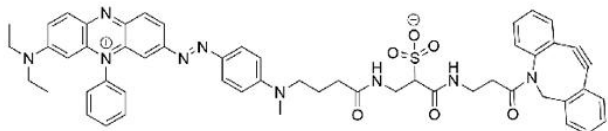


UBQ-3 DBCO

SKU: FP-1753



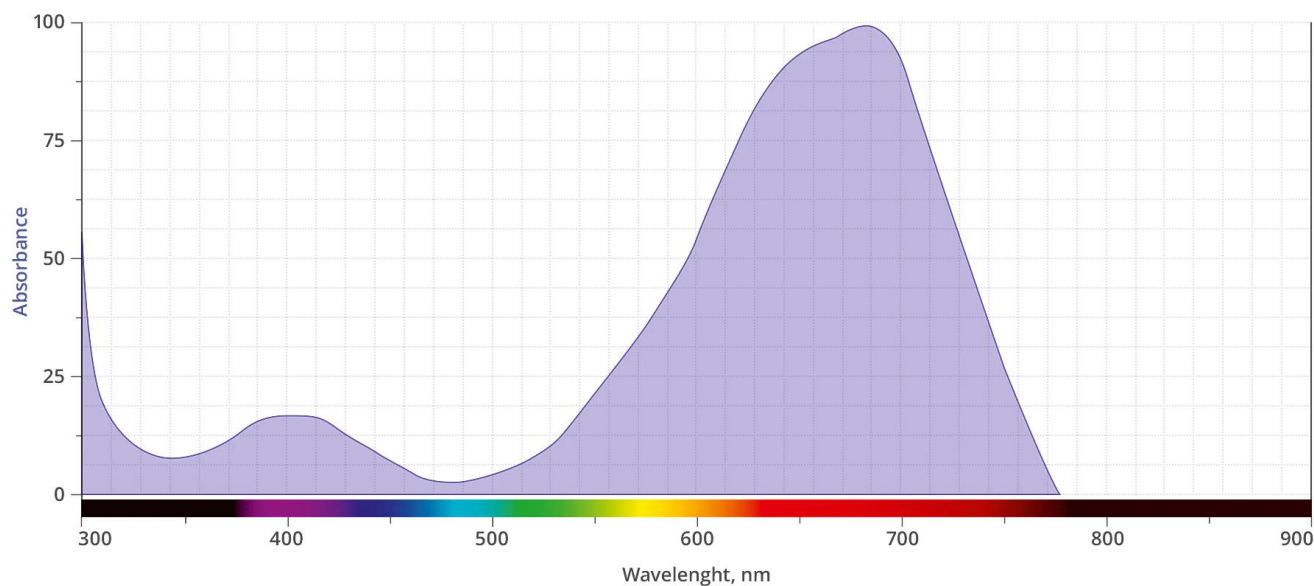
Description

Universal Black 3 Quencher (UBQ-3, Black Hole Quencher®-3 (BHQ®-3) equivalent) is a dark, far-red nonfluorescent acceptor dye with no native emission. UBQ-3 is often used as an acceptor for preparation of fluorogenic dual-labeled probes, qPCR probes, and for other fluorescence-quenched probe applications. A broad and intense quenching range from 620-730 nm makes it useful as an acceptor in fluorescence resonance energy transfer (FRET) applications in conjunction with far-red to near-IR emitting dyes such as Cy5, Cy5.5, Alexa Fluor® 633, 647, 700, IRDye® 650, 680 and 700.

UBQ-3 is structurally identical to BHQ®-3.

UBQ-3 DBCO reacts with azides via a copper-free “click chemistry” reaction to form a stable triazole and does not require Cu-catalyst or elevated temperatures. Often a reagent of choice for labeling intact proteins, lipids and peptides where the presence of cytotoxic copper catalyst is not acceptable.

For research use only. Not intended for animal or human therapeutic or diagnostic use.



Abs/Em Spectra

Specifications

Unit Size	5 mg, 25 mg, 100 mg
Reactivity	Primary amine
Abs/Em Maxima	615 nm
Extinction coefficient	40,700 cm ⁻¹ M ⁻¹
Solubility	DMSO, DMF
Spectrally similar dyes	Cy5, Cy5.5, Alexa Fluor® 647, 680, 700, IRDye® 650, 680, 700
Molecular weight	958.15
Storage Conditions	-20°C.
Shipping Conditions	Ambient temperature

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