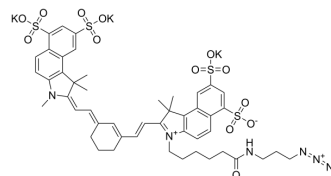


Sulfo-Cy7.5 azide

Cat. No.:	HY-D1850
Molecular Formula:	C ₄₈ H ₅₁ K ₃ N ₆ O ₁₃ S ₄
Molecular Weight:	1165.51
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Sulfo-Cy7.5 azide is a Cyanine 7.5 (Cy7.5) (HY-D0926) dye derivative with azide and sulfonate functional groups. The sulfonate ion increases the water solubility of the compound, making it suitable for use in aqueous solutions. Cy7.5 is a near-infrared fluorescent dye commonly used for biolabeling and cell imaging. The azide group of Sulfo-Cy7.5 azide can react chemically with molecules containing alkyne functionality, such as alkyne or cyclooctyne, to form covalent bonds. Therefore, Sulfo-Cy7.5 azide can bind to biomolecules such as proteins and antibodies to track their location and dynamic changes in biological samples. It contains an azide group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing alkyne groups. It can also undergo ring strain-promoted alkyne-azide cycloaddition (SPAAC) with molecules containing DBCO or BCN groups.

Caution: Product has not been fully validated for medical applications. For research use only.

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