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DDE TAMRA BIOTIN ALKYNE

SKU: CCT-1368



DESCRIPTION

Trifunctional Click Chemistry Probes that incorporate a ligation handle, a biotin and a fluorophore have become a popular tool for for tandem labeling of proteins and subsequent detection or enrichment. However, due to the strong interaction between biotin and streptavidin harsh conditions are necessary for the elution of enriched proteins. This usually leads to contamination of the sample with non-specifically bound proteins and endogenously biotinlytated proteins, which complicates target identification.

Cleavable Trifunctional Click Chemistry Probes overcome this major drawback of the streptavidin-biotin affinity purification. These probes contain a biotin moiety linked to a “clickable” group and fluorescent dye through a spacer arm containing a cleavable Dde linker. Dde moiety is stable to rigorous, denaturing wash conditions, acidic or basic conditions including generally applied buffer systems to which the biological sample may be exposed. At the same time Dde linker can be quantitatively cleaved under mild aqueous buffered conditions with 2% hydrazine.

Another very important advantage of dual label probes over regular biotin probes is built-in control. Each step of enrichment process can easily followed either by UV-Vis (550 nm) or by more sensitive fluorescence spectroscopy. After elution form streptavidin beads target proteins containing TAMRA label can be easily distinguished from non-specifically bound proteins and endogenously biotinlytated proteins.

This new dual label probe should be useful to expand the new applications of standard

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biotin–streptavidin technology.

SPECIFICATIONS

CAS Number	N/A
Molecular Weight	1439.73
Appearance	Red amorphous solid
Chemical Formula	C71H101N12O17S
Unit Size	1 mg, 5 mg, 25 mg
Solubility	DMSO, DMF
Storage Instructions	-20°C.
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

GALLERY IMAGES



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