

## **Lumiprobe Corporation**

115 Airport Dr Suite 160 Westminster, Maryland 21157 USA

Phone: +1 888 973 6353 Fax: +1 888 973 6354

Email: order@lumiprobe.com

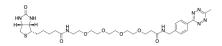
## **Biotin-PEG4-tetrazine**

http://www.lumiprobe.com/p/biotin-peg4-tetrazine

Biotin-PEG4-tetrazine is a click chemistry biotinylation tool. The tetrazine group reacts extremely fast with terminal alkenes and trans-cyclooctenes via inverse electron demand Diels-Alder ligation (IEDDA). Tetrazines also react with some strained cycloalkynes.

Biotin-labeled compounds can be linked to avidin or streptavidin for further purification or detection. The biotin group is relatively small and doesn't affect the biological activity of biotinylated proteins.

This reagent features a long PEG4-linker that separates the biotin residue from the target molecule, ensuring efficient binding to avidin or streptavidin. The linker also increases the compound's water solubility, thereby facilitating bioconjugation.



## **Structure of Biotin-PEG4-Tetrazine**

## **General properties**

Appearance: purple powder

Molecular weight: 674.83Molecular formula:  $C_{31}H_{46}N_8O_7S$ 

Solubility: good in water, DMSO, DMF

Quality control: NMR <sup>1</sup>H and HPLC-MS (95+%)

Storage conditions: 24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks.

Desiccate.

Legal statement: Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in

food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial

purposes.