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## Product Data Sheet

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Product Name: Azido-PEG7-amine

Cat. No.: GC60070

### Chemical Properties

Cas. No. 1333154-77-0

SMILES NCCOCCOCCOCCOCCOCCOCCOCCN=[N+]=[N-]

Formula  $C_{16}H_{34}N_4O_7$  M.Wt 394.46

Solubility DMSO: 10mg/mL, PBS (pH 7.2): 1mg/mL Storage -20°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

### Background

Azido-dPEG7-amine is a heterobifunctional PEGylated linker.<sup>1</sup> It contains a reactive NH<sub>2</sub> end group, as well as an azide functional group for use in click chemistry reactions. Azido-dPEG7-amine has been used as a linker in the synthesis of bivalent mammalian target of rapamycin (mTOR) inhibitors.<sup>2</sup>

1. Goswami, L.N., Houston, Z.H., Sarma, S.J., et al. Efficient synthesis of diverse heterobifunctionalized clickable oligo(ethylene glycol) linkers: potential applications in bioconjugation and targeted drug delivery *Org. Biomol. Chem.* 11(7)116-1126(2012)

2. Rodrik-Outmezguine, V.S., Okaniwa, M., Yao, Z., et al. Overcoming mTOR resistance mutations with a new-generation mTOR inhibitor *Nature* 534(7606)272-276(2016)

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

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