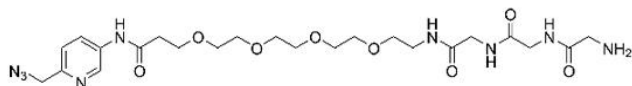


PICOLYL AZIDE-GLY-GLY-GLY

SKU: CCT-1553



Description

Picolyl Azide is an advanced probe for sortase mediated labeling of proteins that incorporates a copper-chelating motif to raise the effective concentration of Cu(I) at the reaction site to boost the efficiency of the CuAAC reaction, resulting in a faster and more biocompatible CuAAC labeling. Sortase catalyzes a transpeptidase reaction between a specific internal sequence of a protein and an amine group present on the N-terminus of triglycine recently has become an area of great interest. This method of labeling proteins has been denoted as “Sortagging”.

Proteins conjugated to Picolyl Azide-Gly-Gly-Gly can be further modified with alkyne- or DBCO-containing molecules creating site-specific protein conjugates. Examples of creating protein conjugates using sortagging include site-specifically PEGylating proteins,¹ site-specific protein-lipid conjugates,² and constructing peptides and glycosylphosphatidylinositol chimeras.³ Sortase has also been used in peptide synthesis to cyclize peptides to create macrocyclic peptides, glycopeptides⁴ and protein–protein conjugates.

Specifications

Unit Size	10 mg, 25 mg, 100 mg
Molecular weight	567.60
Chemical composition	C ₂₃ H ₃₇ N ₉ O ₈
CAS	N/A
Solubility	DMSO, DMF
Purity	>95% (HPLC)
Appearance	Grey amorphous solid
Storage Conditions	-20°C. Desiccate
Shipping Conditions	Ambient temperature

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