

## BP Fluor 405 picolyl azide

## Chemical Properties

CAS No. : 2841143-99-3

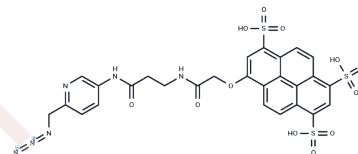
Formula: C<sub>27</sub>H<sub>22</sub>N<sub>6</sub>O<sub>12</sub>S<sub>3</sub>

Molecular Weight: 718.692

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	BP Fluor 405 picolyl azide is an advanced fluorescent probe that incorporates a copper-chelating motif to enhance the effective concentration of Cu(I) at the reaction site. The rate of the CuAAC reaction depends on the concentrations of all reagents, including copper; therefore, increasing the effective concentration of copper at the reaction site can substantially accelerate the CuAAC reaction rate without the need to increase the concentrations of azide reagents or copper. Additionally, using pyridyl azide instead of traditional azides allows for the copper catalyst concentration to be reduced by at least tenfold without compromising labeling efficiency. In summary, the introduction of the pyridyl group into the azide probe significantly boosts the sensitivity of alkyne detection, proving especially valuable for detecting low-abundance targets or situations requiring a significant increase in signal intensity.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3914 mL	6.9571 mL	13.9142 mL
5 mM	0.2783 mL	1.3914 mL	2.7828 mL
10 mM	0.1391 mL	0.6957 mL	1.3914 mL
50 mM	0.0278 mL	0.1391 mL	0.2783 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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