

SDA alkyne

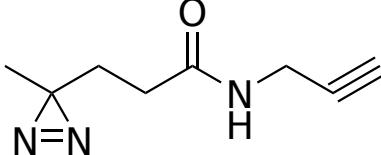
Catalog Number: 39005

Unit Size: 1 mg

Product Details

Storage Conditions	Freeze (< -15 °C), Minimize light exposure
Expiration Date	24 months upon receiving

Chemical Properties

Appearance	Solid light yellow
Molecular Weight	165.20
Soluble In	DMSO
Chemical Structure	

Spectral Properties

Excitation Wavelength	N/A
Emission Wavelength	N/A

Applications

SDA alkyne contains both diazirine photoaffinity moiety and alkyne functional group. It is an excellent building block to introduce photoaffinity function into an azide-modified biomolecule via the well-known click chemistry. Diazirines are known for their ability to undergo photochemical reactions when exposed to ultraviolet (UV) light, specifically by forming highly reactive carbene intermediates that react with nearby molecules, forming covalent bonds. This property makes diazirines useful for studying protein-protein, protein-nucleic acid interactions, ligand-receptor binding, and other biomolecular interactions. It's important to note that diazirines are highly reactive and can be challenging to handle due to their instability. They require careful storage and handling, typically in a controlled environment. Additionally, the choice of diazirine-containing compound and the conditions of the photolabeling experiment must be carefully optimized to achieve desired results while minimizing non-specific reactions.