

Data Sheet (30.05.2014)

Dabcy-Azide

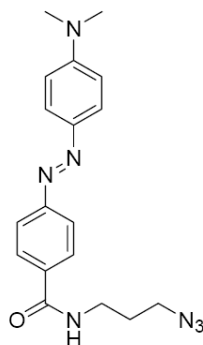
N3-(Azidopropyl)-dabcyamide

Click Chemistry

Cat.-No.	Amount
mi-C1002S	1 mg
mi-C1002M	5 mg

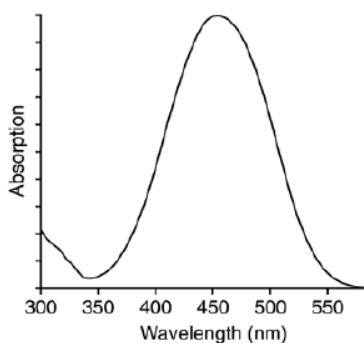
Only for *in vitro* use!
For research only!

Structure



Spectroscopic data

Absorption maximum: Abs = 478 nm
Extinction coefficient: 32000 cm⁻¹ M⁻¹



Absorption spectrum of Dabcy-Azide

Molecular formula: C₁₈H₂₁N₇O

Molecular weight: 351.41 g/ mol

Purity: >95 %

Appearance: orange solid

Solubility: DMSO, DMF, MeCN, EtOAc

Storage conditions: store at -20 °C, dry

Description

The Click reaction is a copper(I)-catalyzed azide-alkyne cycloaddition that permits DNA labeling with very high efficiency. Alkyne-modified DNA can be generated by PCR using alkyne-containing nucleotides (mi-N300X). These alkyne groups allow the attachment of fluorescent and non-fluorescent azides to the PCR product by click chemistry (mi-Click Chemistry Manual, mi-C1101 CuBr, mi-C1102 TBTA-Ligand, mi-C1103 DMSO/t-Butanol Solvent). Custom synthesized oligos which are already alkyne-modified can be ordered from metabion and can be labeled with the marker azides as well.

References

Angew. Chem. Int. Ed. **2008**, *47*, 3442 –3444; *Angew. Chem. Int. Ed.* **2008**, *47*, 8350-8358.