

Data Sheet (01.02.2011)

Biotin-Azide

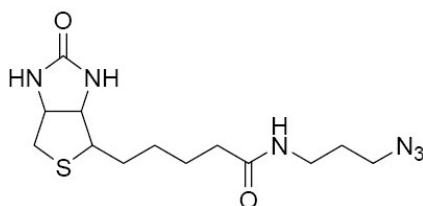
N3-(Azidopropyl)-biotinamide

Click Chemistry

Cat.-No.	Amount
mi-C1003S	1 mg
mi-C1003M	5 mg

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

Structure



Molecular formula: C₁₃H₂₂N₆O₂S

Molecular weight: 326.42 g/ mol

Purity: >95 %

Appearance: off-white solid

Solubility: DMSO, DMF, MeOH

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.