

Biotin-PEG_x-Azide

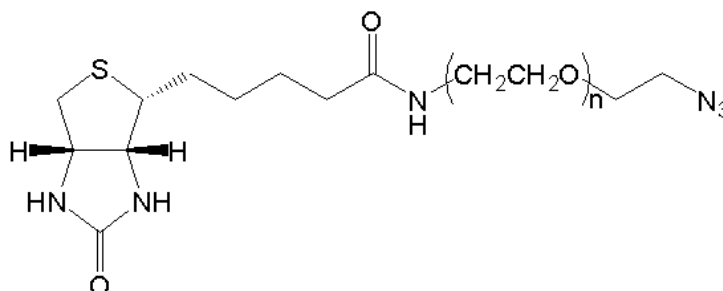
Products Description

Biotin-PEG_x-Azide

“ 600Da	AWJLB1, 1g	AWJLB2, 5g
“ 1000Da	B36H91, 1g	B36H92, 5g
“ 2000Da	B36HA1, 1g	B36HA2, 5g
“ 3400Da	B36HB1, 1g	B36HB2, 5g
“ 5000Da	B36H81, 1g	B36H82, 5g
“ 10000Da	B43AP1, 1g	B43AP2, 5g

soluble in DMF, DMSO, soluble in water depends on PEO spacer length

See also Azido-PEO_x-Biotins (MW 1 to 40Ka) #[FJ6751](#)



Technical and scientific information

The **biotin** is a vitamin widely used in biotechnology for its propriety of binding with extremely high affinity to avidin ($K_a=10^{-15} \text{ M}^{-1}$) and streptavidin ($K_a=10^{-14} \text{ M}^{-1}$). This hapten-protein interaction resists effectively to drastic physico-chemical conditions, allowing various immuno-technologies, and notably detections. The biotin can be conjugated chemically with biomolecules of interest, through several groups.

The **Azide** functional group reacts with terminal alkynes via a copper-catalyzed click reaction, with strained alkynes (e.g. cyclooctyne DBCO or cyclononyne BCN compounds) via Cu-free click reaction, and with phosphine-labeled molecules (Staudinger ligation), enabling efficient and specific conjugation of derivatized molecules in biological samples. These reactions are bioorthogonal or in other words compatible with biological systems in that its components do not react with the biological environment.

For use *in vitro* only, not for diagnostic.

FT-B36H81

Related / associated products and documents

*Other Biotin-Azide

Azido-PEG_x-Biotins (MW 1 to 40Ka) #[B36H81](#), Azido-PEO_x-Biotins (MW 1 to 40Ka) #[FJ6751](#)
Biotin-Picolyl-Azide #8K6761 (improves the click reaction with Alkynes – no need Cu catalyzer)
N-(Azido-PEG₂)-N-Biotin-PEG₃-Acid #AYNGD-
Azide-SS-Biotin #AYNLU-
PhotoActivable Biotin-Azide #XEU39- PC Biotin-PEG₃-Azide #8X339-
Diol-PEG_x-Biotin #XEU40- Diol-PEG_x-Biotin #8X906-
DDE-PEG_x-Biotin #XEU42- DDE-PEG_x-Biotin #8X683-
Diazo-PEG_x-Biotin #MRT88- Diazo-PEG_x-Biotin #8X719-

* Acetylene-PEG4-Biotin #DQP650

* NHS-PEO_x-Biotins FT-[R2027A](#) ; Maleimido-PEO_x-Biotins FT-[R2028A](#)

* Desalting Biotinylated molecules: [CelluSep dialysis tubings](#)

* Dosage proteins in your conjugate: BC Assay protein dosage FT-[40840A](#)

* Purification of Biotinylated molecules: Avidin support #[UP34090A](#) Hydrazide-Agarose #AWJK30

Ordering and other information

For any information, please contact Uptima, or your local distributor.

Disclaimer : Materials from Uptima are sold **for research use only**, and are not intended for food, drug, household, or cosmetic uses.
Uptima is not liable for any damage resulting from handling or contact with this product.

Rev.U04E

Contact your local distributor

uptima@interchim.com

Uptima, powered by
 213 Avenue J.F. Kennedy - BP 1140
03103 Montluçon Cedex - France
Tel. 04 70 03 88 55 - Fax 04 70 03 82 60

P.2