

FT-WU0910

Azido-PEG_x-Amine

Heterobifunctional crosslinkers with amine and Azide functional groups – for “click chemistry”

Products Description

Name: Azido-PEG_n-Amine

Structure:



MW: 200Da

400Da

500Da

600Da

800Da

Azido-PEG_x-Amine

MW: 1KDa

2KDa

3.4KDa

5KDa

6KDa

8KDa

10KDa

20KDa

30KDa

40KDa

AYPPS0, inquire - See Azide-PEO_{n=1-35}-Amine ([FT-C1015T](#))

AYPPR0, inquire

AYPPQ0, inquire

AYPPP0, inquire

AYPPN0, inquire

AYPPL1, 100 mg

AWJL91, 100 mg

WU0911, 100 mg

AYPPT1, 100 mg

AYPPW1, 100mg

AYPPL2, 1g

AWJL92, 1g

WU0912, 1g

AYPPT2, 1g

AYPPU2, 1 g

AYPPV2, 1g

AYPPW2, 1g

AYPPX2, 1g

AYPPY2, 1g

AYPPZ2, 1g

AYPPT3, 5g

AYPPW3, 5g

Soluble in : DMSO, H₂O

Storage: -20°C ^[M] (or +4°C for long term)

Azide & Amine functionalized polyethylene glycol (N3-PEG-NH₂) is a bifunctional PEG derivative that can be used to modify proteins, peptides and other materials.

.Features:

- Pegylated heterobifunctional crosslinkers with azide and amine functionalities
- Extended **PEG spacer** confers better hydrophilicity to the final conjugate and stability and reduce immunogenicity of peptides and proteins. It can also suppress the non-specific binding of charged molecules to the modified surfaces.
- The **Azide** group reacts with alkyne groups by “click chemistry”
- The **amine** terminus can be used to anchor other molecules on PEG chain by conventionnal chemistry

.Applications:

- Functionalization of solid surface, nanoparticles as well as biomolecules
- Click chemistry
- The amine terminus can be used to anchor other molecules on PEG chain.

Technical and Scientific Information

Poly(ethylene glycol) - PEG or poly(ethylene oxide) - PEO, has unique characteristics toward pharmaceutical and biomedical applications: water solubility, lack of toxicity, non-immunogenicity, ready clearance, non-specific interactions with biological chemicals, and high flexibility and mobility. It has been successfully demonstrated in clinical uses.

Covalently chemical attachment of PEG or PEO to biologically or pharmaceutically active small molecule drug, macromolecules or particulates can impart significant pharmacological advantages over the unmodified agents, which includes increased water solubility, extended blood circulation lifetime, reduced immunogenicity and antigenicity, etc. Bifunctional PEG is an attractive linker to cross-link two or more pharmaceutical agents.

References

- Huet T. et al.**, Long-Lasting Enfuvirtide Carrier Pentasaccharide Conjugates with Potent Anti-Human Immunodeficiency Virus Type 1 Activity, *Antimicrobial Agents and Chemotherapy*, p. 134-142, Vol. 54, No. 1 (2010) [Abstract](#)
- Roberts M. et al.**, Chemistry for peptide and protein PEGylation. *Adv. Drug Deliv. Rev* 54, 459-476 (2002) [Abstract](#)
- Tsui SM et al.**, Pegylated derivatives of recombinant human arginase (rhArg1) for sustained in vivo activity in cancer therapy: preparation, characterization and analysis of their pharmacodynamics in vivo and in vitro and action upon hepatocellular carcinoma cell (HCC), *Cancer Cell International* 9:9 (2009) [Article](#)

For in vitro R&D use only

Related / associated products

- [FT-C1015T](#): Azide-PEO_x-Amine (discrete PEG, synthetic)
Pluronic® F-68 #QH0971 (EO78mEO30EO78)
- Useful [modifiers](#) and other conjugation technologies :
 - DCC (N,N'-dicyclohexylcarbodiimide), [HG9911](#)
 - EDAC, [520059](#)
 - DTT, [054720](#)
 - SATA #84235A, Iminothiolane #[42425A](#)
 - Homobifunctional crosslinkers: NHS-NHS reagents, i.e. [NHS-PEO-NHS](#) and SMCC #[54940A](#)
 - Homobifunctional crosslinkers: MAL-MAL reagents, i.e. [MAL-PEO-MAL](#) #L7736A
 - PhotoActivable (PA) crosslinkers: SH and PA reactive i.e. SCBP #[BI1361](#),...
 - SMCC-hydrazide #[BI1281](#)
 - Hydrazone chemistry: [Conjugation kit](#) #[BL1501](#) and crosslinkers (SANH #[BL9270](#), MHPH #[BL9401](#))
- Desalting tools: [CelluSep dialysis tubings](#), Desalting gelfiltration columns #[UP84874](#)

See [BioSciences Innovations catalogue](#) and [e-search tool](#).

Please contact Uptima – Interchim for any other information