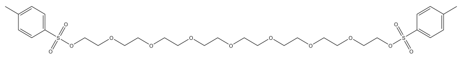
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-637-6119 | Email: info@bioglyco.com

Product Information

Amine/Azide PEG reagent, *t*-butyl ester-PEG25-amide-Tri(3-methoxypropanamide-PEG23-azide) methane, Purity 98%



Cat. No.: X24-09-YYX336

Size: 25 mg; 50 mg; 100 mg

Synonym: *t*-butyl ester of PEG; PEG25 amide; tri(3-methoxypropanamide) PEG PEG23 azide; *t*-butyl PEG conjugate; 3 methoxypropanamide-PEG conjugate

This product is for research use only and is not intended for diagnostic use.

Product Information

Description	*t*-butyl ester-PEG25-amide-Tri(3-methoxypropanamide-PEG23-azide) methane has a *t*-butyl ester group, a long PEG25 chain, an amide linkage, and three 3-methoxypropanamide-PEG23 chains ending with azide groups attached to a methane core. The complex structure offers multiple sites for chemical reactions and could be useful in drug delivery and polymer science.
Molecular Weight	4838.8
Molecular Formula	$C_{215}H_{423}N_{13}O_{103}$
Functional Group 1	Azide
Functional Group 2	*t*-Butyl ester
Functional Group 3	Amine
Reactive Group 1	Alkynyl
Reactive Group 2	Acid
IUPAC Name	*tert*-butyl 3-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[3-[[1,3-Bis[3-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-azidoethoxy)ethoxy]ethylamino]-3-oxopropoxy]-2-[[3-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-azidoethoxy)ethoxy]ethylamino]-3-oxopropoxy]methyl]propan-2-yl]amino]-3-oxopropoxy]ethoxy]propanoate
InChI	InChI=1S/C215H423N13O103/c1-214(2,3)331-213(233)8-19-235-27-35-243-43-51-251-59-67-259-75-83-267-91-99-275-107-115-283-123-131-291-139-147-299-155-163-307-171-179-315-187-195-323-203-205-327-204-202-322-194-186-314-178-170-306-162-154-298-146-138-290-130-122-282-114-106-274-98-90-266-82-74-258-66-58-250-50-42-242-34-26-234-15-7-212(232)225-215(206-328-1

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	6-4-209(229)219-9-20-236-28-36-244-44-52-252-60-68-260-76-84-268-92-100-276-108-116-284-124-132-292-140-148-300-156-164-308-172-180-316-188-196-324-199-191-319-183-175-311-167-159-303-151-143-295-135-127-287-119-111-279-103-95-271-87-79-263-71-63-255-55-47-247-39-31-239-23-12-222-226-216,207-329-17-5-210(230)220-10-21-237-29-37-245-45-53-253-61-69-261-77-85-269-93-101-277-109-117-285-125-133-293-141-149-301-157-165-309-173-181-317-189-197-325-200-192-320-184-176-312-168-160-304-152-144-296-136-128-288-120-112-280-104-96-272-88-80-264-72-64-256-56-48-248-40-32-240-24-13-223-227-217)208-330-18-6-211(231)221-11-22-238-30-38-246-46-54-254-62-70-262-78-86-270-94-102-278-110-118-286-126-134-294-142-150-302-158-166-310-174-182-318-190-198-326-201-193-321-185-177-313-169-161-305-153-145-297-137-129-289-121-113-281-105-97-273-89-81-265-73-65-257-57-49-249-41-33-241-25-14-224-228-218/h4-208H2,1-3H3,(H,219,229)(H,220,230)(H,221,231)(H,225,232)
InChI Key	WNFVSKMOMPYOPD-UHFFFAOYSA-N
Isomeric SMILES	CC(C)(C)OC(=O)CCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCC(=O)NC(COCCC(=O)NCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCN=[N+]=[N-])(COCCC(=O)NCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCN=[N+]=[N-])COCCC(=O)NCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCN=[N+]=[N-]
Form	Solid
Purity	98%
Identity	Confirmed by NMR.
Applications	In materials science, it can be incorporated into polymeric materials to modify their properties such as flexibility, hydrophilicity, and surface characteristics. This could be useful in the development of coatings or membranes with specific functions.
Storage	Store at -20°C.

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