

BCN PEG reagent, Endo-BCN-PEG12-acid, Purity 98%

O=C1C=CC2(C1)C=CC3(C2)C=CC4(C3)C=CC5(C4)C=CC6(C5)C=CC7(C6)C=CC8(C7)C=CC9(C8)C=CC10(C9)C=CC11(C10)C=CC12(C11)C=CC13(C12)C=CC14(C13)C=CC15(C14)C=CC16(C15)C=CC17(C16)C=CC18(C17)C=CC19(C18)C=CC20(C19)C=CC21(C20)C=CC22(C21)C=CC23(C22)C=CC24(C23)C=CC25(C24)C=CC26(C25)C=CC27(C26)C=CC28(C27)C=CC29(C28)C=CC30(C29)C=CC31(C30)C=CC32(C31)C=CC33(C32)C=CC34(C33)C=CC35(C34)C=CC36(C35)C=CC37(C36)C=CC38(C37)C=CC39(C38)C=CC40(C39)C=CC41(C40)C=CC42(C41)C=CC43(C42)C=CC44(C43)C=CC45(C44)C=CC46(C45)C=CC47(C46)C=CC48(C47)C=CC49(C48)C=CC50(C49)C=CC51(C50)C=CC52(C51)C=CC53(C52)C=CC54(C53)C=CC55(C54)C=CC56(C55)C=CC57(C56)C=CC58(C57)C=CC59(C58)C=CC60(C59)C=CC61(C60)C=CC62(C61)C=CC63(C62)C=CC64(C63)C=CC65(C64)C=CC66(C65)C=CC67(C66)C=CC68(C67)C=CC69(C68)C=CC70(C69)C=CC71(C70)C=CC72(C71)C=CC73(C72)C=CC74(C73)C=CC75(C74)C=CC76(C75)C=CC77(C76)C=CC78(C77)C=CC79(C78)C=CC80(C79)C=CC81(C80)C=CC82(C81)C=CC83(C82)C=CC84(C83)C=CC85(C84)C=CC86(C85)C=CC87(C86)C=CC88(C87)C=CC89(C88)C=CC90(C89)C=CC91(C90)C=CC92(C91)C=CC93(C92)C=CC94(C93)C=CC95(C94)C=CC96(C95)C=CC97(C96)C=CC98(C97)C=CC99(C98)C=CC100(C99)C=CC101(C100)C=CC102(C101)C=CC103(C102)C=CC104(C103)C=CC105(C104)C=CC106(C105)C=CC107(C106)C=CC108(C107)C=CC109(C108)C=CC110(C109)C=CC111(C110)C=CC112(C111)C=CC113(C112)C=CC114(C113)C=CC115(C114)C=CC116(C115)C=CC117(C116)C=CC118(C117)C=CC119(C118)C=CC120(C119)C=CC121(C120)C=CC122(C121)C=CC123(C122)C=CC124(C123)C=CC125(C124)C=CC126(C125)C=CC127(C126)C=CC128(C127)C=CC129(C128)C=CC130(C129)C=CC131(C130)C=CC132(C131)C=CC133(C132)C=CC134(C133)C=CC135(C134)C=CC136(C135)C=CC137(C136)C=CC138(C137)C=CC139(C138)C=CC140(C139)C=CC141(C140)C=CC142(C141)C=CC143(C142)C=CC144(C143)C=CC145(C144)C=CC146(C145)C=CC147(C146)C=CC148(C147)C=CC149(C148)C=CC150(C149)C=CC151(C150)C=CC152(C151)C=CC153(C152)C=CC154(C153)C=CC155(C154)C=CC156(C155)C=CC157(C156)C=CC158(C157)C=CC159(C158)C=CC160(C159)C=CC161(C160)C=CC162(C161)C=CC163(C162)C=CC164(C163)C=CC165(C164)C=CC166(C165)C=CC167(C166)C=CC168(C167)C=CC169(C168)C=CC170(C169)C=CC171(C170)C=CC172(C171)C=CC173(C172)C=CC174(C173)C=CC175(C174)C=CC176(C175)C=CC177(C176)C=CC178(C177)C=CC179(C178)C=CC180(C179)C=CC181(C180)C=CC182(C181)C=CC183(C182)C=CC184(C183)C=CC185(C184)C=CC186(C185)C=CC187(C186)C=CC188(C187)C=CC189(C188)C=CC190(C189)C=CC191(C190)C=CC192(C191)C=CC193(C192)C=CC194(C193)C=CC195(C194)C=CC196(C195)C=CC197(C196)C=CC198(C197)C=CC199(C198)C=CC200(C199)C=CC201(C200)C=CC202(C201)C=CC203(C202)C=CC204(C203)C=CC205(C204)C=CC206(C205)C=CC207(C206)C=CC208(C207)C=CC209(C208)C=CC210(C209)C=CC211(C210)C=CC212(C211)C=CC213(C212)C=CC214(C213)C=CC215(C214)C=CC216(C215)C=CC217(C216)C=CC218(C217)C=CC219(C218)C=CC220(C219)C=CC221(C220)C=CC222(C221)C=CC223(C222)C=CC224(C223)C=CC225(C224)C=CC226(C225)C=CC227(C226)C=CC228(C227)C=CC229(C228)C=CC230(C229)C=CC231(C230)C=CC232(C231)C=CC233(C232)C=CC234(C233)C=CC235(C234)C=CC236(C235)C=CC237(C236)C=CC238(C237)C=CC239(C238)C=CC240(C239)C=CC241(C240)C=CC242(C241)C=CC243(C242)C=CC244(C243)C=CC245(C244)C=CC246(C245)C=CC247(C246)C=CC248(C247)C=CC249(C248)C=CC250(C249)C=CC251(C250)C=CC252(C251)C=CC253(C252)C=CC254(C253)C=CC255(C254)C=CC256(C255)C=CC257(C256)C=CC258(C257)C=CC259(C258)C=CC260(C259)C=CC261(C260)C=CC262(C261)C=CC263(C262)C=CC264(C263)C=CC265(C264)C=CC266(C265)C=CC267(C266)C=CC268(C267)C=CC269(C268)C=CC270(C269)C=CC271(C270)C=CC272(C271)C=CC273(C272)C=CC274(C273)C=CC275(C274)C=CC276(C275)C=CC277(C276)C=CC278(C277)C=CC279(C278)C=CC280(C279)C=CC281(C280)C=CC282(C281)C=CC283(C282)C=CC284(C283)C=CC285(C284)C=CC286(C285)C=CC287(C286)C=CC288(C287)C=CC289(C288)C=CC290(C289)C=CC291(C290)C=CC292(C291)C=CC293(C292)C=CC294(C293)C=CC295(C294)C=CC296(C295)C=CC297(C296)C=CC298(C297)C=CC299(C298)C=CC300(C299)C=CC301(C300)C=CC302(C301)C=CC303(C302)C=CC304(C303)C=CC305(C304)C=CC306(C305)C=CC307(C306)C=CC308(C307)C=CC309(C308)C=CC310(C309)C=CC311(C310)C=CC312(C311)C=CC313(C312)C=CC314(C313)C=CC315(C314)C=CC316(C315)C=CC317(C316)C=CC318(C317)C=CC319(C318)C=CC320(C319)C=CC321(C320)C=CC322(C321)C=CC323(C322)C=CC324(C323)C=CC325(C324)C=CC326(C325)C=CC327(C326)C=CC328(C327)C=CC329(C328)C=CC330(C329)C=CC331(C330)C=CC332(C331)C=CC333(C332)C=CC334(C333)C=CC335(C334)C=CC336(C335)C=CC337(C336)C=CC338(C337)C=CC339(C338)C=CC340(C339)C=CC341(C340)C=CC342(C341)C=CC343(C342)C=CC344(C343)C=CC345(C344)C=CC346(C345)C=CC347(C346)C=CC348(C347)C=CC349(C348)C=CC350(C349)C=CC351(C350)C=CC352(C351)C=CC353(C352)C=CC354(C353)C=CC355(C354)C=CC356(C355)C=CC357(C356)C=CC358(C357)C=CC359(C358)C=CC360(C359)C=CC361(C360)C=CC362(C361)C=CC363(C362)C=CC364(C363)C=CC365(C364)C=CC366(C365)C=CC367(C366)C=CC368(C367)C=CC369(C368)C=CC370(C369)C=CC371(C370)C=CC372(C371)C=CC373(C372)C=CC374(C373)C=CC375(C374)C=CC376(C375)C=CC377(C376)C=CC378(C377)C=CC379(C378)C=CC380(C379)C=CC381(C380)C=CC382(C381)C=CC383(C382)C=CC384(C383)C=CC385(C384)C=CC386(C385)C=CC387(C386)C=CC388(C387)C=CC389(C388)C=CC390(C389)C=CC391(C390)C=CC392(C391)C=CC3

CAS Number: 2183440-27-7

PubChem CID: 129012710

Synonym: 2183440-27-7; Endo-BCN-PEG12-acid; AKOS040743300; BP-23767;

HY-140066

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

Product Information

Description	Endo-BCN-PEG12-acid is a precisely engineered PEG molecule equipped with a BCN group and a terminal carboxylic acid, facilitating versatile chemical reactions.
Molecular Weight	794.0
Molecular Formula	C ₃₈ H ₆₇ NO ₁₆
Functional Group 1	BCN
Functional Group 2	None
Functional Group 3	None
Reactive Group 1	Azide
Reactive Group 2	Amine
IUPAC Name	3-[2-[2-[2-[2-[2-[2-[2-[2-[2-(9-Bicyclo[6.1.0]non-4-ynylmethoxycarbonylamino)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoic acid
InChI	InChI=1S/C38H67NO16/c40-37(41)7-9-43-11-13-45-15-17-47-19-21-49-23-25-51-27-29-53-31-32-54-30-28-52-26-24-50-22-20-48-18-16-46-14-12-44-10-8-39-38(42)55-33-36-34-5-3-1-2-4-6-35(34)36/h34-36H,3-33H2,(H,39,42)(H,40,41)
InChI Key	VLDILOCSPCYAIX-UHFFFAOYSA-N
Canonical SMILES	C1CC2C(C2COC(=O)NCCOCCCCCOCCCOCOCCCOCOCCCOCOCCCOCOCCC(=O)O)CC C#C1
Form	Liquid
Purity	98%
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.

Applications	Endo-BCN-PEG12-acid serves as an effective linker for bioconjugation and molecular modifications. Its terminal carboxylic acid moiety enables stable amide bond formation with primary amine groups, while the BCN group allows for copper-free click chemistry reactions with azide-tagged molecules, offering broad utility in various research and synthetic applications.
Storage	Store at -20°C