

Product Information

BCN (Bicyclo[6.1.0]nonyne) Conjugates

Unit Size: 0.5 mg for CF® dye BCN
1.0 mg for biotin BCN and MTS-BCN

Technical Summary

| Cat. No. | BCN conjugate | Abs _{max} (nm) | Em _{max} (nm) | Extinction coefficient | MW |
|----------|---------------|-------------------------|------------------------|------------------------|-------|
| 92113 | CF®405S | 404 | 431 | 33,000 | ~788 |
| 92114 | CF®405M | 408 | 452 | 41,000 | ~720 |
| 96070 | CF®440 | 440 | 515 | 40,000 | ~698 |
| 92075 | CF®488A | 490 | 515 | 70,000 | ~1132 |
| 96026 | CF®500 | 500 | 510 | 70,000 | ~570 |
| 92076 | CF®568 | 562 | 583 | 100,000 | ~932 |
| 92077 | CF®594 | 593 | 614 | 115,000 | ~947 |
| 92078 | CF®640R | 642 | 662 | 105,000 | ~1050 |
| 96059 | CF®647 | 650 | 665 | 240,000 | ~1203 |
| 96027 | CF®650 | 650 | 670 | 100,000 | ~692 |
| 96058 | CF®680 | 681 | 698 | 210,000 | ~3371 |
| 92079 | CF®680R | 680 | 701 | 140,000 | ~1130 |
| 92169 | Biotin | --- | --- | --- | ~463 |
| 96023 | MTS | --- | --- | --- | ~331 |

Storage and Handling

Store BCN conjugates at -20°C, protected from light. Product is guaranteed for at least 12 months from date of receipt when stored as recommended. Stock solution may be prepared in DMSO or dH₂O and can be stored at ≤ -20°C for at least 12 months.

Product Description

BCN (Bicyclo[6.1.0]nonyne) conjugates react with azide to form 1,2,3-triazole by copper-free 1,3-dipolar Huisgen cycloaddition. This copper-free bioorthogonal reaction allows reaction with live cells or cell extracts when there are concerns about native protein function loss with copper.

CF®440 BCN, CF®500 BCN, and CF®650 BCN are membrane-permeant for intracellular copper-free reaction with azide.

Related Products

| Catalog number | Product |
|----------------|---|
| 92092 | CF®405M Azide |
| 92080 | CF®488A Azide |
| 92081 | CF®555 Azide |
| 92082 | CF®568 Azide |
| 92083 | CF®594 Azide |
| 92084 | CF®647 Azide |
| 92085 | CF®640R Azide |
| 92094 | CF®660C Azide |
| 92086 | CF®488A Alkyne |
| 92168 | Biotin Alkyne |
| 92087 | CF®555 Alkyne |
| 92088 | CF®568 Alkyne |
| 92089 | CF®594 Alkyne |
| 92090 | CF®647 Alkyne |
| 92091 | CF®640R Alkyne |
| 92093 | CF®405M Alkyne |
| 92095 | CF®660C Alkyne |
| 92167 | Biotin Azide |
| 22004 | Ultrafiltration vial, 10K MWCO (5 per pack) |
| 22018 | Ultrafiltration vial, 3K MWCO (5 per pack) |
| 90082 | DMSO, anhydrous |
| 22013 | Bovine Serum Albumin, Fraction V |
| 22014 | Bovine Serum Albumin, 30% solution |
| 22020 | 10X Phosphate Buffered Saline |
| 41024-4L | Water, Ultrapure Molecular Biology Grade |

Please visit www.biotium.com to view our full selection of innovative products for life science research.

CF dye technology is covered by pending U.S. and international patents. Materials from Biotium are sold for research use only, and are not intended for food, drug, household, or cosmetic use.