

Biotinylated Kinases

Try our new products to study kinase-molecule interactions!

The immobilization of target proteins onto sensor surfaces, while maintaining both structure and activity, has been problematic and rate-limiting to the acquisition of meaningful SPR and/or BLI data in small molecule drug discovery. Carna Biosciences has developed proprietary technology to produce biotinylated kinase products to help overcome these challenges. A few features of our new and expanding product line are shown below.

Biotinylated Kinases

44
kinds

The Carna Advantage...

- Biotinylated at the N-terminus
- Preserved kinase activity and structure
- Produced in insect cells using baculovirus expression system
- Highly purified by affinity column chromatography

See reverse side
for available kinases!

Biotinylated Kinase (FLT3) - Example of Use

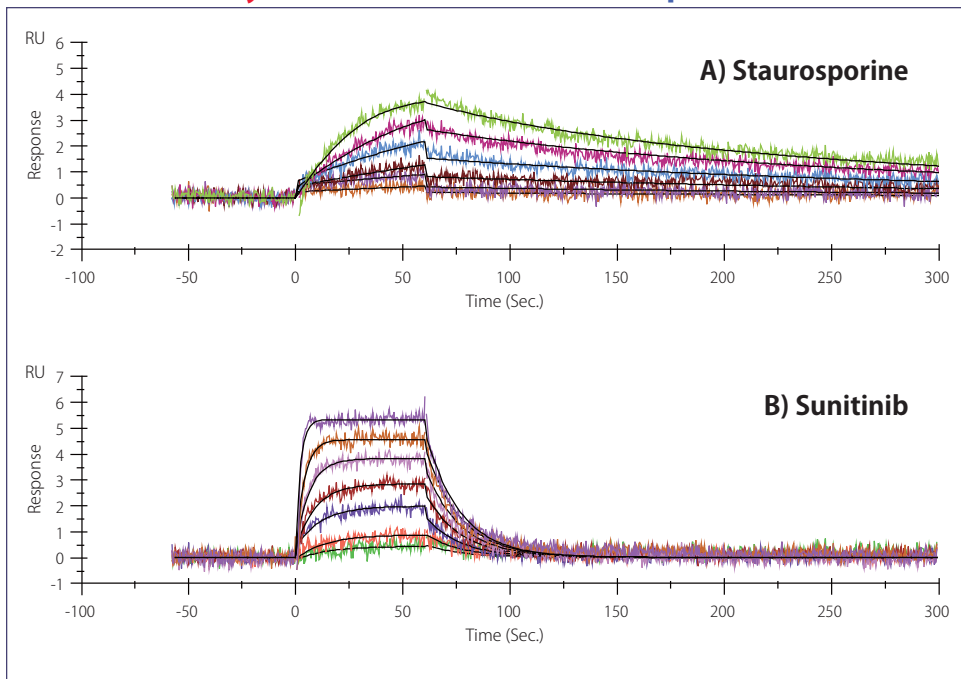


Fig. Representative SPR sensorgrams of the binding between biotinylated-FLT3 and kinase inhibitors. A) Staurosporine, and B) Sunitinib.

Production Steps

Cloning, Culturing Cells

Purification

● **Standard Production**

● **ATP-Treated Kinases**

● **Phosphatase Treated Kinases**

will be offered on a fee-for-service basis in the future. Please contact us for more detail.

Quality Control

Off The Shelf

Vial Sizes : 10µg / 100µg



Applicable to various binding assays using avidin-biotin interaction, such as SPR.

For more details, please visit our website.

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Biotinylated Kinases from Carna Biosciences, Inc.

Cat No.	Name of Product	Length	Amino Acid	Accession Number	Tag	M.W.	Expression System
08-401-20N	BTN - ABL(ABL1)	Full-length	2-1130(end)	NP_005148.2	N-terminal DYKDDDDK	126 kDa	Insect (sf21)
09-432-20N	BTN - ACTR2B(ACVR2B)	Cytoplasmic domain	161-512(end)	NP_001097.2	N-terminal DYKDDDDK	43 kDa	Insect (sf21)
01-401-20N	BTN - AKT1	Catalytic domain	104-480(end)	NP_005154.1	N-terminal DYKDDDDK	47 kDa	Insect (sf21)
NEW 01-402-20N	BTN - AKT2	Catalytic domain	120-481(end)	NP_001617.1	N-terminal DYKDDDDK	45 kDa	Insect (sf21)
08-405-20N	BTN - ALK	Cytoplasmic domain	1058-1620(end)	BAG10812.1	N-terminal DYKDDDDK	67 kDa	Insect (sf21)
05-401-20N	BTN - AurA(AURKA)	Full-length	1-403(end)	NP_940835.1	N-terminal DYKDDDDK	50 kDa	Insect (sf21)
08-407-20N	BTN - AXL	Cytoplasmic domain	464-885(end)	NP_001690.2	N-terminal DYKDDDDK	51 kDa	Insect (sf21)
08-480-20N	BTN - BTK	Full-length	2-659(end)	NP_000052.1	N-terminal DYKDDDDK	80 kDa	Insect (sf21)
09-411-20N	BTN - DLK(MAP3K12)	Catalytic domain	1-520	NP_006292.3	N-terminal DYKDDDDK	63 kDa	Insect (sf21)
08-415-20N	BTN - EGFR	Cytoplasmic domain	669-1210(end)	NP_005219.2	N-terminal DYKDDDDK	66 kDa	Insect (sf21)
08-410-20N	BTN - EGFR[T790M/L858R]	Cytoplasmic domain	669-1210(end)	NP_005219.2	N-terminal DYKDDDDK	66 kDa	Insect (sf21)
08-435-20N	BTN - FGFR1	Cytoplasmic domain	396-820(end)	NP_056934.2	N-terminal DYKDDDDK	52 kDa	Insect (sf21)
08-433-20N	BTN - FGFR3	Cytoplasmic domain	436-806(end)	NP_000133.1	N-terminal DYKDDDDK	52 kDa	Insect (sf21)
08-454-20N	BTN - FLT3	Cytoplasmic domain	564-993(end)	NP_004110.2	N-terminal DYKDDDDK	53 kDa	Insect (sf21)
08-455-20N	BTN - FMS(CSF1R)	Cytoplasmic domain	538-972(end)	NP_005202.2	N-terminal DYKDDDDK	53 kDa	Insect (sf21)
08-468-20N	BTN - FYN	Full-length	1-537(end)	NP_002028.1	N-terminal DYKDDDDK	65 kDa	Insect (sf21)
08-416-20N	BTN - HER2(ERBB2)	Cytoplasmic domain	676-1255(end)	NP_004439.1	N-terminal DYKDDDDK	68 kDa	Insect (sf21)
08-441-20N	BTN - IGF1R	Cytoplasmic domain	959-1367(end)	NP_000866.1	N-terminal DYKDDDDK	50 kDa	Insect (sf21)
05-412-20N	BTN - IKKα(CHUK)	Full-length	1-745(end)	NP_001269.3	N-terminal DYKDDDDK	88 kDa	Insect (sf21)
05-412-11-20N	BTN - IKKα(CHUK)[inactive mutant]	Full-length	1-745(end)	NP_001269.3	N-terminal DYKDDDDK	88 kDa	Insect (sf21)
09-445-20N	BTN - IRAK4	Full-length	1-460(end)	NP_057207.2	N-terminal DYKDDDDK	55 kDa	Insect (sf21)
08-444-20N	BTN - JAK1	Catalytic domain	850-1154(end)	NP_002218.2	N-terminal DYKDDDDK	39 kDa	Insect (sf21)
08-445-20N	BTN - JAK2	Catalytic domain	826-1132(end)	NP_004963.1	N-terminal DYKDDDDK	39 kDa	Insect (sf21)
08-491-20N	BTN - KDR(VEGFR2)	Cytoplasmic domain	790-1356(end)	NP_002244.1	N-terminal DYKDDDDK	67 kDa	Insect (sf21)
08-470-20N	BTN - LCK	Full-length	1-509(end)	NP_005347.2	N-terminal DYKDDDDK	62 kDa	Insect (sf21)
08-471-20N	BTN - LYNa	Full-length	1-512(end)	NP_002341.1	N-terminal DYKDDDDK	63 kDa	Insect (sf21)
07-441-20N	BTN - MAP2K1	Full-length	1-393(end)	NP_002746.1	N-terminal DYKDDDDK	47 kDa	Insect (sf21)
08-451-20N	BTN - MET	Cytoplasmic domain	956-1390(end)	NP_000236.2	N-terminal DYKDDDDK	53 kDa	Insect (sf21)
11-401-20N	BTN - PIK3CA/PIK3R1	Full-length	1-1068(end)	NP_006209.2	N-terminal DYKDDDDK	128 kDa	Insect (sf21)
05-457-20N	BTN - PLK1	Full-length	1-603(end)	NP_005021.2	N-terminal DYKDDDDK	72 kDa	Insect (sf21)
05-460-20N	BTN - PLK4	Full-length	1-970(end)	BAG36907.1	N-terminal DYKDDDDK	113 kDa	Insect (sf21)
08-438-20N	BTN - PYK2(PTK2B)	Full-length	1-967(end)	NP_775267.1	N-terminal DYKDDDDK	115 kDa	Insect (sf21)
08-459-20N	BTN - RET	Cytoplasmic domain	658-1114(end)	NP_066124.1	N-terminal DYKDDDDK	56 kDa	Insect (sf21)
11-405-20N	BTN - SPHK1	Full-length	1-384(end)	NP_001136074.1	N-terminal DYKDDDDK	46 kDa	Insect (sf21)
08-473-20N	BTN - SRC	Full-length	1-536(end)	NP_005408.1	N-terminal DYKDDDDK	64 kDa	Insect (sf21)
08-476-20N	BTN - SYK	Full-length	1-635(end)	NP_003168.2	N-terminal DYKDDDDK	76 kDa	Insect (sf21)
09-441-20N	BTN - TGFβR1(TGFB1)	Catalytic domain	200-503(end)	NP_004603.1	N-terminal DYKDDDDK	38 kDa	Insect (sf21)
07-438-20N	BTN - TNIK	Catalytic domain	1-314	NP_055843.1	N-terminal DYKDDDDK	39 kDa	Insect (sf21)
08-486-20N	BTN - TRKA(NTRK1)	Cytoplasmic domain	436-790(end)	NP_001012331.1	N-terminal DYKDDDDK	44 kDa	Insect (sf21)
08-487-20N	BTN - TRKB(NTRK2)	Cytoplasmic domain	456-822(end)	NP_001018074.1	N-terminal DYKDDDDK	45 kDa	Insect (sf21)
08-497-20N	BTN - TRKC(NTRK3)	Catalytic domain	456-825(end)	NP_002521.2	N-terminal DYKDDDDK	46 kDa	Insect (sf21)
08-447-20N	BTN - TYK2	Catalytic domain	871-1187(end)	NP_003322.3	N-terminal DYKDDDDK	40 kDa	Insect (sf21)
NEW 05-479-20N	BTN - WNK1	Catalytic domain	1-491	NP_061852.1	N-terminal DYKDDDDK	59 kDa	Insect (sf21)
NEW 05-482-20N	BTN - WNK4	Catalytic domain	1-444	NP_115763.2	N-terminal DYKDDDDK	53 kDa	Insect (sf21)



Under Development

Please contact us for availability of kinases not listed below.

Cat No.	Name of Product	Length	Amino Acid	Accession Number	Tag	M.W.	Expression System
---	BTN - BRAF	TBA	TBA	TBA	TBA	TBA	TBA
---	BTN - MAP3K14	TBA	TBA	TBA	TBA	TBA	TBA
---	BTN - RAF1	TBA	TBA	TBA	TBA	TBA	TBA
---	BTN - TTK	TBA	TBA	TBA	TBA	TBA	TBA