**CARNA BIOSCIENCES**

# QuickScout™ Selectivity Profiling Service Application Form

**Date:** Enter mm/dd/yy

## Customer Information

| | |
|---|---|
| Customer Name | Dr. John Carna |
| Institution/Company | |
| Department | |
| Street Address | |
| City | |
| State/Zip | |
| Country | |
| Tel Number | |
| Fax Number | |
| Email Address | |

Enter your information

## Study Information

| | | |
|---|---|---|
| Assay Type | ◯ % Inhibition at fixed concentration | ◉ IC50 determination |
| Physical State | ◉ Solution | ◯ Solid |
| Unit of Concentration | ◉ µM | ◯ µg/mL |
| Residual materials | ◯ Dispose after completion of study. | ◉ Return to the customer (at customer's cost) |

← Choose the type of study

← Choose the physical state of compound. Solution must be in DMSO

← Choose the unit of Concentration

Choose how you would like us to handle the residual materials

## Additional Information

For special request, please write here.

## Notice

Detailed information about each kinase and assay condition can be checked on the latest Kinase Profiling Book.
http://www.carnabio.com/output/pdf/ProfilingProfilingBook_en.pdf

Sample Preparation
The volume of samples required for testing varies with the number and types of assays selected.
Please supply samples in 100% DMSO at 100X the highest test concentration.
Volume required : ≦100 target kinases = 500 uL , ＞100 target kinases = 1000 uL
If your samples do not meet our requirements (i.e.. 10 mM DMSO solution, solid form), please consult us. Also, please provide us the Safety Data Sheet (SDS, or cautions for sample handling), disposal instruction, and any special solubilization instructions if available.

Samples submitted as solids must be shipped pre-weighed with the accurate molecular weight, quantity shipped and purity recorded on this Application Form. Please provide sample(s) in a vessel deep enough to accommodate 5 mM* DMSO solution. An additional charge may apply if a large number of samples are supplied as powders. We do not weigh customer samples. Please consult us prior to shipment.
(*in case of >50 uM test concentration, please contact us in advance)

Ship to:     CARNA BIOSCIENCES, INC.□
Attention: Yusuke Kawase
BMA 3F 1-5-5 Minatojima-Minamimachi, Chuo-ku, Kobe 650-0047   Japan
TEL: +81 78-302-7091  /  FAX: +81 78-302-7086
E-mail:    info@carnabio.com

Storage
Unless otherwise directed by the client, samples are solubilized and diluted with dimethylsulfoxide (DMSO) to achieve 100-fold higher concentration than the final test concentrations. This Solution is stored at -10 to -30 Celsius. This solution is further diluted into 4% DMSO to achieve a 4-fold higher concentration than the final test concentrations. The addition of reagents used in the assay further dilutes the sample solution by 4-fold, so that the final DMSO concentration in the assay is 1%. If you have determined that your samples are insoluble in 100% DMSO, 4% DMSO, or require special handling, please consult us in prior to shipping.

Disposal
Unless otherwise indicated on the Application Form by the client, residuals will be disposed after three (3) months from the completion of study.
Residuals can be returned to the client upon an request at the client's expense.

Please feel free to contact us if you have any questions or comments.

# Compound and Assay Information

| | Name | Lot # | Prep. Date | Conc. (mM) | Volume (µL) | Purity (%) | Storage Temp. | Start Concentration (µM) Conc1 | | | | | |
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| 50 | | | | | | | | | | | | | |

**Enter information on one (1) compound per line. The colored cells must be filled in.**

**Enter if multiple concentrations. For IC50 study, the top concentration must be enterd in "Conc 1" column.**

**For more than fifty (50) compounds, please copy this sheet .**

*QuickScout Selectivity Profiling*

## Target Kinase Selection

ATP Conc.:  Km = around Km,   1mM = 1mM ATP

# Checked or red colored kinase is selected one.

**QuickScout Panel**

| | Km assay all ☐ | | **52 assays selected** |
|---|---|---|---|

The total number of assys you have chosen,

☐ Hide All Unselected Kinases.

- TK Panel ☑ · Km assay all ☐
- STK Panel ☐ · 1mM assay all ☐
- Cell Cycle Panel ☑ · Cascade assay all ☐
- MAPK Cascade Panel ☐

Click here for the pre-selected series.

Check the box of kinase you would like to request.

Choose the ATP concentration of your request

Kinase List

### Tyrosine Kinases

| Kinase | Km | 1mM | Kinase | Km | 1mM | Kinase | Km | 1mM | Kinase | Km | 1mM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ABL | ☐ | ☐ | ABL [E255K] | ☑ | ☐ | ABL [T315I] | ☑ | ☐ | ACK | ☐ | ☐ |
| ALK | ☐ | ☐ | ALK [C1156Y] | ☐ | ☐ | ALK [F1174L] | ☐ | ☐ | ALK [G1202R] | ☐ | ☐ |
| ALK [G1269A] | ☐ | ☐ | ALK [L1152insT] (ALK [T1151_L1152insT]) | ☐ | ☐ | ALK [L1196M] | ☐ | ☐ | ALK [R1275Q] | ☐ | ☐ |
| EML4-ALK | ☐ | ☐ | NPM1-ALK | ☐ | ☐ | ARG | ☐ | ☐ | AXL | ☐ | ☐ |
| BLK | ☐ | ☐ | BMX | ☐ | ☐ | BRK | ☐ | ☐ | BTK | ☐ | ☐ |
| BTK [C481S] | ☐ | ☐ | CSK | ☐ | ☐ | DDR1 | ☐ | ☐ | DDR2 | ☐ | ☐ |
| EGFR | ☐ | ☐ | EGFR [d746-750] | ☐ | ☐ | EGFR [d746-750/T790M] | ☐ | ☐ | EGFR [L858R] | ☐ | ☐ |
| EGFR [L861Q] | ☐ | ☐ | EGFR [T790M] | ☐ | ☐ | EGFR [T790M/L858R] | ☐ | ☐ | EPHA1 | ☐ | ☐ |
| EPHA2 | ☐ | ☐ | EPHA3 | ☐ | ☐ | EPHA4 | ☐ | ☐ | EPHA5 | ☐ | ☐ |
| EPHA6 | ☐ | ☐ | EPHA7 | ☐ | ☐ | EPHA8 | ☐ | ☐ | EPHB1 | ☐ | ☐ |
| EPHB2 | ☐ | ☐ | EPHB3 | ☐ | ☐ | EPHB4 | ☐ | ☐ | FAK | ☐ | ☐ |
| FER | ☐ | ☐ | FES | ☐ | ☐ | FGFR1 | ☐ | ☐ | FGFR1 [V561M] | ☐ | ☐ |
| FGFR2 | ☐ | ☐ | FGFR3 | ☐ | ☐ | FGFR3 [K650E] | ☐ | ☐ | FGFR3 [K650M] | ☐ | ☐ |
| FGFR4 | ☐ | ☐ | FGFR4 [N535K] ※ | | | FGFR4 [V550E] | ☐ | ☐ | FGFR4 [V550L] | ☐ | ☐ |
| FGR | ☐ | ☐ | FLT1 | ☐ | ☐ | FLT3 | ☐ | ☐ | FLT4 | ☐ | ☐ |
| FMS | ☐ | ☐ | FRK | ☐ | ☐ | FYN [isoform a] | ☐ | ☐ | FYN [isoform b] | ☐ | ☐ |
| HCK | ☐ | ☐ | HER2 | ☐ | ☐ | HER4 | ☐ | ☐ | IGF1R | ☐ | ☐ |
| INSR | ☐ | ☐ | IRR | ☐ | ☐ | ITK | ☐ | ☐ | JAK1 | ☐ | ☐ |
| JAK2 | ☐ | ☐ | JAK3 | ☐ | ☐ | KDR | ☐ | ☐ | KIT | ☐ | ☐ |
| KIT [D816E] | ☐ | ☐ | KIT [D816V] | ☐ | ☐ | KIT [D816Y] | ☐ | ☐ | KIT [T670I] | ☐ | ☐ |
| KIT [V560G] | ☐ | ☐ | KIT [V654A] | ☐ | ☐ | LCK | ☐ | ☐ | LTK | ☐ | ☐ |
| LYNa | ☐ | ☐ | LYNb | ☐ | ☐ | MER | ☐ | ☐ | MET | ☐ | ☐ |
| MET [D1228H] | ☐ | ☐ | MET [M1250T] | ☐ | ☐ | MET [Y1235D] | ☐ | ☐ | MUSK | ☐ | ☐ |
| PDGFRα | ☐ | ☐ | PDGFRα [D842V] | ☐ | ☐ | PDGFRα [T674I] | ☐ | ☐ | PDGFRα [V561D] | ☐ | ☐ |
| PDGFRβ | ☐ | ☐ | PYK2 | ☐ | ☐ | RET | ☐ | ☐ | RET [G691S] | ☐ | ☐ |
| RET [M918T] | ☐ | ☐ | RET [S891A] | ☐ | ☐ | RET [Y791F] | ☐ | ☐ | RON | ☐ | ☐ |
| ROS | ☐ | ☐ | SRC | ☐ | ☐ | SRM | ☐ | ☐ | SYK | ☐ | ☐ |
| TEC | ☐ | ☐ | TIE2 | ☐ | ☐ | TNK1 | ☐ | ☐ | TRKA | ☐ | ☐ |
| TRKB | ☐ | ☐ | TRKC | ☐ | ☐ | TXK | ☐ | ☐ | TYK2 | ☐ | ☐ |
| TYRO3 | ☐ | ☐ | YES | ☐ | ☐ | YES [T348I] | ☐ | ☐ | ZAP70 | ☐ | ☐ |

### Serine/Threonine Kinases

| Kinase | Km | 1mM | Kinase | Km | 1mM | Kinase | Km | 1mM | Kinase | Km | 1mM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AKT1 | ☐ | ☐ | AKT2 | ☐ | | AKT3 | ☐ | | AMPKα1/β1/γ1 | ☐ | ☐ |
| AMPKα2/β1/γ1 | ☐ | | AurA | ☐ | ☐ | AurA/TPX2 | ☐ | | AurB | ☐ | ☐ |
| AurC | ☐ | ☐ | BRSK1 | ☐ | | BRSK2 | ☐ | | BUB1/BUB3 | ☐ | |
| CaMK1α | ☐ Km = 1mM | | CaMK1δ | ☐ | | CaMK2α | ☐ | | CaMK2β | ☐ | |
| CaMK2γ | ☐ | | CaMK2δ | ☐ | | CaMK4 | ☐ | ☐ | CDC2/CycB1 | ☐ | ☐ |
| CDC7/ASK | ☐ | ☐ | CDK2/CycA2 | ☐ | ☐ | CDK2/CycE1 | ☐ | ☐ | CDK3/CycE1 | ☐ Km = 1mM | |
| CDK4/CycD3 | ☐ | ☐ | CDK5/p25 | ☐ | ☐ | CDK6/CycD3 | ☐ | ☐ | CDK7/CycH/MAT1 | ☐ | ☐ |
| CDK9/CycT1 | ☐ | ☑ | CGK2 | ☐ | | CHK1 | ☐ | ☐ | CHK2 | ☐ | ☐ |
| CK1α | ☐ | ☐ | CK1γ1 | ☐ | | CK1γ2 | ☐ | | CK1γ3 | ☐ | |

*QuickScout Selectivity Profiling*

# Complete Kinase List sheet (on the fourth page)

| Kinase Name |
| --- |
| ABL |
| ABL_1mM |
| ABL [E255K] |
| ABL [E255K]_1mM |
| ABL [T315I] |
| ABL [T315I]_1mM |

**Target for 1mM ATP testing**

ACK
ACK_1mM
AKT1
AKT1_1mM
AKT2
AKT3
ALK
ALK_1mM
ALK [C1156Y]
ALK [C1156Y]_1m
ALK [F1174L]
ALK [F1174L]_1m
ALK [G1202R]
ALK [G1202R]_1mM
ALK [G1269A]
ALK [G1269A]_1mM
ALK [L1152insT]
ALK [L1152insT]_1mM
ALK [L1196M]
ALK [L1196M]_1mM
ALK [R1275Q]
ALK [R1275Q]_1mM
AMPKα1/β1/γ1
AMPKα1/β1/γ1_1mM
AMPKα2/β1/γ1
ARG
ARG_1mM
AurA
AurA_1mM
AurA/TPX2
AurB
AurB_1mM
AurC
AurC_1mM
AXL
AXL_1mM
BLK
BLK_1mM
BMX
BMX_1mM
BRAF [V600E]_Cascade
BRAF_Cascade
BRK
BRK_1mM
BRSK1
BRSK1_1mM
BRSK2
BTK
BTK_1mM
BTK [C481S]
BTK [C481S]_1mM
BUB1/BUB3
CaMK1α
CaMK1δ
CaMK2α
CaMK2β
CaMK2γ
CaMK2δ
CaMK4
CaMK4_1mM

## How to use the Complete Kinase List (CKL) sheet

1) Extract your request kinase names by filter function of the A row.
2) Copy the extracted kinase names and paste them onto the "Kinase List"
on the fisrt sheet

 For 1mM ATP testing, choose the target name followed by _1mM [underscore1mM]