

Supplementary Table S4. The reactions' conditions used in the *in vitro* kinase inhibition assay. The reactions were performed in a final volume of 25 μ L with 30 μ M ATP.

Kinase [ng/reaction]	Substrate [concentration]	Temperature and time of reaction	Other reagents
TNIK [0.5 ng]	LRRKtide [5 μ M]	25°C, 1 hour	20 mM Tris, pH 7.5 10 mM MgCl ₂ 0.1 mM Na ₃ VO ₄ 0.01% Triton X-100 2 mM DTT
ALK [2.5 ng]	IGF-1Rtide [60 μ M]	30°C, 2 hours	50 mM Tris, pH 7.5 10 mM MgCl ₂ 0.25 mM EGTA 0.1 mM Na ₃ VO ₄ 0.01% Triton X-100 2.5 mM DTT
AURA [1.6 ng]	Kemptide [30 μ M]	25°C, 1 hour	50 mM Tris, pH 7.5 10 mM MgCl ₂ 0.25 mM EGTA 0.1 mM Na ₃ VO ₄ 0.01% Triton X-100 2.5 mM DTT
BTK [2.5 ng]	Srctide [30 μ M]	25°C, 1 hour	20 mM Tris, pH 7.5 10 mM MgCl ₂ 0.1 mM Na ₃ VO ₄ 0.01% Triton X-100 2 mM DTT
EGFR [7.0 ng]	Srctide [60 μ M]	25°C, 1 hour	50 mM Tris, pH 7.5 10 mM MgCl ₂ 0.25 mM EGTA 0.1 mM Na ₃ VO ₄ 0.01% Triton X-100 2.5 mM DTT
FGFR1	IGF-1Rtide	30°C, 1 hour	20 mM Tris, pH 7.5

[2.5 ng]	[60 μ M]		10 mM MgCl ₂ 0.1 mM Na ₃ VO ₄ 0.01% Triton X-100 2 mM DTT
FGFR2 [2.0 ng]	IGF-1Rtide [30 μ M]	25°C, 1 hour	20 mM Tris, pH 7.5 10 mM MgCl ₂ 0.1 mM Na ₃ VO ₄ 0.01% Triton X-100 2 mM DTT
FLT3 [1.0 ng]	Srctide [20 μ M]	25°C, 1 hour	50 mM Tris, pH 7.5 10 mM MgCl ₂ 0.25 mM EGTA 0.1 mM Na ₃ VO ₄ 0.01% Triton X-100 2.5 mM DTT
GSK3 [1.0 ng]	GSM [10 μ M]	33°C, 1.5 hour	50 mM Tris, pH 7.5 10 mM MgCl ₂ 0.25 mM EGTA 0.1 mM Na ₃ VO ₄ 0.01% Triton X-100 2.5 mM DTT
JAK2 [0.5 ng]	IGF-1Rtide [10 μ M]	25°C, 1 hour	50 mM Tris, pH 7.5 10 mM MgCl ₂ 0.25 mM EGTA 0.1 mM Na ₃ VO ₄ 0.01% Triton X-100 2.5 mM DTT
KDR [2.5 ng]	Srctide [30 μ M]	25°C, 1 hour	20 mM Tris, pH 7.5 10 mM MgCl ₂ 0.1 mM Na ₃ VO ₄ 0.01% Triton X-100 2 mM DTT

PDGFRβ [2.5 ng]	Src tide [30 μ M]	25°C, 1 hour	20 mM Tris, pH 7.5 10 mM MgCl ₂ 0.1 mM Na ₃ VO ₄ 0.01% Triton X-100 2 mM DTT
PI3Kα [10 ng]	PIP ₂ [50 μ M]	25°C, 1 hour	50 mM Tris, pH 7.5 10 mM MgCl ₂ 0.25 mM EGTA 0.1 mM Na ₃ VO ₄ 0.01% Triton X-100 2.5 mM DTT
PIM1 [5 ng]	S6K [30 μ M]	25°C, 1 hour	50 mM Tris, pH 7.5 10 mM MgCl ₂ 0.25 mM EGTA 0.1 mM Na ₃ VO ₄ 0.01% Triton X-100 2.5 mM DTT
SYK [2.5 ng]	Src tide [40 μ M]	25°C, 1 hour	50 mM Tris, pH 7.5 10 mM MgCl ₂ 0.25 mM EGTA 0.1 mM Na ₃ VO ₄ 0.01% Triton X-100 2.5 mM DTT