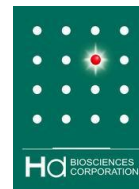


## HD BIOSCIENCES (CHINA) CO., LTD.

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## Enzyme Assay Available at HD Biosciences

HD Biosciences offers comprehensive kinase solution services from assay development and high throughput screening (HTS) to selectivity profiling. All the assays developed by HDB are HTS-compatible.

A diversified list of kinases is ready for profiling service. Customized panels can be selected based on needs.

Number	Kinase Name	Kinase family	Assay Format	
			Luminescence	Caliper
1	ABL1	Tyr kinase	✓	
2	ABL2	Tyr kinase	✓	
3	AKT1	Ser/Thr kinase	✓	✓
4	AKT2	Ser/Thr kinase	✓	
5	AKT3	Ser/Thr kinase	✓	
6	ALK1	Ser/Thr kinase	✓	
7	AMPK (A1/B1/G1)	Ser/Thr kinase	✓	✓
8	AMPK (A1/B1/G2)	Ser/Thr kinase		✓
9	AMPK (A2/B1/G1)	Ser/Thr kinase	✓	✓
10	AMPK (A2/B2/G2)	Ser/Thr kinase		✓
11	Aurora A	Ser/Thr kinase	✓	✓
12	Aurora B	Ser/Thr kinase	✓	✓
13	Aurora C	Ser/Thr kinase		✓
14	AXL	Receptor Tyr kinase	✓	✓
15	BLK	Tyr kinase	✓	✓
16	BTK	Tyr kinase		✓
17	CAMK1	Ser/Thr kinase	✓	
18	CDK1/CyclinA2	Ser/Thr kinase	✓	✓
19	CDK1/CyclinB	Ser/Thr kinase	✓	

20	CDK2/CyclinA2	Ser/Thr kinase	✓	✓
21	CDK3/CyclinE1	Ser/Thr kinase		✓
22	CDK4/CyclinD1	Ser/Thr kinase	✓	
23	CDK4/CyclinD3	Ser/Thr kinase		✓
24	CDK5/P25	Ser/Thr kinase		✓
25	CDK5/P35	Ser/Thr kinase		✓
26	CDK6/CyclinD1	Ser/Thr kinase		✓
27	CDK6/CyclinD3	Ser/Thr kinase		✓
28	CDK7/CyclinH1/MNAT1	Ser/Thr kinase		✓
29	CHK2	Ser/Thr kinase		✓
30	C-Kit	Receptor Tyr kinase	✓	✓
31	C-Kit (V654A)	Receptor Tyr kinase	✓	✓
32	EGFR	Receptor Tyr kinase	✓	✓
33	EGFR(T790M,L858R)	Receptor Tyr kinase	✓	✓
34	EphA1	Receptor Tyr kinase	✓	✓
35	EphA2	Receptor Tyr kinase		✓
36	EphA3	Receptor Tyr kinase		✓
37	EphA4	Receptor Tyr kinase		✓
38	EphB1	Receptor Tyr kinase		✓
39	EphB2	Receptor Tyr kinase	✓	
40	EphB3	Receptor Tyr kinase		✓
41	EphB4	Receptor Tyr kinase		✓
42	ERK1	Ser/Thr kinase	✓	✓
43	ERK2	Ser/Thr kinase	✓	✓
44	FGFR1	Receptor Tyr kinase	✓	✓
45	FGFR1(V561M)	Receptor Tyr kinase		✓
46	FGFR2	Receptor Tyr kinase		✓
47	FGFR3	Receptor Tyr kinase		✓
48	FGFR4	Receptor Tyr kinase		✓
49	FGR	Tyr kinase	✓	✓

50	FLT1 (VEGFR1)	Receptor Tyr kinase	✓	✓
51	FLT3	Receptor Tyr kinase	✓	✓
52	FMS (CSF1R)	Receptor Tyr kinase	✓	
53	GSK3 $\alpha$	Ser/Thr kinase	✓	
54	GSK3 $\beta$	Ser/Thr kinase	✓	
55	HER2	Receptor Tyr kinase	✓	
56	IGF1R	Receptor Tyr kinase	✓	✓
57	InsR	Receptor Tyr kinase	✓	✓
58	JNK1	Ser/Thr kinase	✓	
59	KDR (VEGFR2)	Ser/Thr kinase	✓	✓
60	LCK	Tyr kinase	✓	✓
61	LKB1	Ser/Thr kinase	✓	
62	NEK2	Ser/Thr kinase	✓	
63	p38 $\alpha$	Ser/Thr kinase	✓	✓
64	p38 $\beta$	Ser/Thr kinase	✓	✓
65	PDGFR $\alpha$	Tyr kinase	✓	✓
66	PDGFR $\beta$	Tyr kinase	✓	✓
67	PI3K $\alpha$	Lipid kinase	✓	
68	PI3K $\gamma$	Lipid kinase	✓	
69	PKA $\alpha$	Ser/Thr kinase	✓	✓
70	PKA $\beta$	Ser/Thr kinase	✓	✓
71	PKA $\gamma$	Ser/Thr kinase	✓	✓
72	PKC $\alpha$	Ser/Thr kinase	✓	✓
73	PKC $\beta$ I	Ser/Thr kinase		✓
74	PKC $\beta$ II	Ser/Thr kinase		✓
75	PKC $\gamma$	Ser/Thr kinase	✓	✓
76	PKC $\epsilon$	Ser/Thr kinase	✓	✓
77	PKC $\theta$	Ser/Thr kinase		✓
78	PKC $\delta$	Ser/Thr kinase		✓
79	PKC $\zeta$	Ser/Thr kinase		✓
80	PKC $\iota$	Ser/Thr kinase		✓
81	PLK1	Ser/Thr kinase	✓	

82	PLK2	Ser/Thr kinase	✓	
83	PLK3	Ser/Thr kinase	✓	
84	RAF1 (C-Raf)	Ser/Thr kinase	✓	
85	B-Raf	Ser/Thr kinase	✓	
86	B-Raf (V599E)	Ser/Thr kinase	✓	
87	RET	Receptor Tyr kinase	✓	✓
88	RON	Receptor Tyr kinase	✓	✓
89	SRC	Tyr kinase	✓	✓
90	TrkA	Receptor Tyr kinase	✓	✓
91	TrkB	Receptor Tyr kinase	✓	

For more questions, please contact:

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