

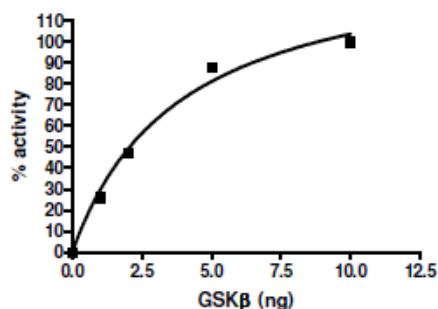


## Serine/Threonine Kinases



Serine/threonine protein kinases phosphorylate the OH group of specific serine or threonine residues. Over 125 different human serine/threonine kinases have been identified. The proteins are involved in the regulation of nearly every cell signaling pathway, including gene expression, growth, proliferation, differentiation, adhesion, motility, and death.

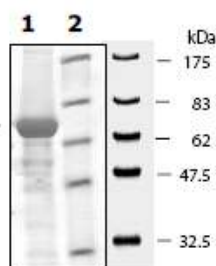
### GSK3beta Specific Activity



### 10% SDS-PAGE Coomassie staining

**Lane 1:**  
7 μg GSK3beta

**Lane 2:**  
Protein Marker  
BioLabs (#P7708L)



**MW:** 73 kDa.  
**Purity:** ≥75%

Activity and purity of GSKβ, Cat. #40007.

## Active Ser/Thr Kinases

Active Enzymes	Cat. #	Amount
Abl Kinase	40411	10 μg
Abl Kinase (T334I)	40415	10 μg
Abl2	40417	10 μg
Akt1	40003	10 μg
Akt2	40011	10 μg
Akt3	40012	10 μg
ALK1	40018	10 μg
ALK2	40019	10 μg
ALK4	40020	10 μg
AMPK (A1/B1/G2)	40021	10 μg
AMPK (A1/B1/G3)	40022	10 μg
AMPK (A1/B2/G1)	40023	10 μg
AMPK (A2/B1/G1)	40024	10 μg
AMPK (A1/B1/G1)	40025	10 μg
AMPK (A2/B2/G1)	40026	10 μg
AMPK (A2/B2/G2)	40027	10 μg
Ask1	40028	10 μg
Aurora Kinase A (human)	40004	10 μg
Aurora Kinase A (mouse)	40177	10 μg
Aurora Kinase B	40002	10 μg
Aurora Kinase C	40178	10 μg
BRAF (V599E)	40533	10 μg
BRSK2	40016	10 μg
CAMK1 (mouse)	40030	10 μg
CAMK1β (mouse)	40031	10 μg
CAMK1γ, full length	40032	10 μg
CAMK1γ (1-330)	40036	10 μg
CAMK1δ	40037	10 μg
CAMK2α	40038	10 μg
CAMK2β	40041	10 μg
CAMK2γ	40042	10 μg
CAMK2δ	40043	10 μg
CAMK4	40029	10 μg
CAMKK1	40044	10 μg
CAMKK2	40046	10 μg
CDK1/CyclinA2	40100	10 μg
CDK1/CyclinB1	40454	10 μg
CDK2/CyclinA2	41101	10 μg
CDK2/CyclinE2	40102	10 μg
CDK4/CyclinD3	40104	10 μg
CDK5/p25	40105	10 μg
CDK4/Cyclin D1	40094	20 μg
CDK5	40095	10 μg
CDK6/CyclinD1	40097	10 μg
CDK6/Cyclin D3	40096	20 μg
CDK7/CyclinH1/MNAT1	40098	10 μg
CDK9/CyclinK	40106	10 μg



**The #1 Source for Active Enzymes**

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## Active Ser/Thr Kinases, continued

Active Enzymes	Cat. #	Amount
CHK1	40039	10 µg
CHK2	40040	10 µg
CK2a1	40045	10 µg
Cot (Tpl2)	40050	10 µg
DAPK1	40051	10 µg
DAPK2	40049	10 µg
DAPK3	40052	10 µg
DCAMKL1	40047	10 µg
DCAMKL2	40048	10 µg
DMPK	40054	10 µg
DYRK2	40053	10 µg
EEFK2	40057	10 µg
EIF2AK2	40058	10 µg
EIF2AK3	40059	10 µg
ERK1	40055	10 µg
ERK2	40299	10 µg
ERN1 (IRE1)	40306	10 µg
GCK (MAP4K2)	40107	10 µg
GRK2	40060	10 µg
GRK5	40063	10 µg
GRK6	40066	10 µg
GRK7	40108	10 µg
GSK3α	40006	10 µg
GSK3β	40007	10 µg
HGK (MAP4K4)	40109	10 µg
HIPK1	40179	10 µg
HIPK3	40110	10 µg
HIPK4	40111	10 µg
ICK	40112	10 µg
IKKα	40303	10 µg
IKKβ	40304	10 µg
IRAK2	40087	10 µg
IRAK4	40064	10 µg
JNK1	40071	10 µg
JNK2	40113	10 µg
JNK3	40114	10 µg
KHS1 (GCKR)	40115	10 µg
LKB1/MO25/STRAD	40069	20 µg
Lok1 (Stk10)	40074	10 µg
LRRK	40067	10 µg
LRRK2(G2019S)	40068	10 µg
MAPKAPK3	40117	10 µg
MAPKAPK5	40118	10 µg
MAP3K14 (NIK)	40090	10 µg
MAPKAPK2	400116	10 µg
MAPK10(JNK3)	40092	10 µg
MARK1	40119	10 µg
MARK3	40120	10 µg
MNK1(5385D)	40078	10 µg
MKK6	40089	20 µg
MEK1 (GST-tag)	40531	50 µg

## Active Ser/Thr Kinases, continued

Active Enzymes	Cat. #	Amount
MEK1 active	40123	10 µg
MEK1 (EE), mouse	40121	10 µg
MEK1 (K97R)	40075	100 µg
MEKK2	40122	10 µg
MEKK3	40124	10 µg
MINK1	40126	10 µg
MLCK	40127	10 µg
MLCK2	40128	10 µg
MRCKα	40129	10 µg
MRCKβ	40130	10 µg
MSK1	40131	10 µg
MSSK1 (SRPK3)	40132	10 µg
MST3	40133	10 µg
MST4	40134	10 µg
MTOR/RAPTOR/MLST8	40300	10 µg
MUSK	40079	10 µg
MYLK2	40135	10 µg
MYLK3	40136	10 µg
MYO3β	40137	10 µg
NDR	40138	10 µg
NEK2	40009	10 µg
NEK3	40140	10 µg
NEK6	40014	10 µg
NEK7	40141	10 µg
NEK9	40142	10 µg
NEK11	40139	10 µg
p38α	40528	50 µg
p38β	40143	10 µg
p38γ	40144	10 µg
p38δ	40145	10 µg
p70S6K	40062	20 µg
p70S6Kb	40146	10 µg
PAK1	40072	10 µg
PAK2	40073	10 µg
PAK3 (mouse)	40147	10 µg
PAK4	40076	10 µg
PAK5	40077	10 µg
PAK6	40081	10 µg
PAK7	40148	10 µg
PASK	40149	10 µg
PDK1	40080	10 µg
PHKG1	40150	10 µg
PHKG2	40151	10 µg
PIM1	40152	10 µg
PIM1, Active	41107	10 µg

## Active Ser/Thr Kinases, continued

Active Enzymes	Cat. #	Amount
PIM2	40153	10 µg
PIM3, Active	41108	10 µg
PKAα	40154	10 µg
PKAcβ	40155	10 µg
PKAcγ	40156	10 µg
PKCα	40157	10 µg
PKCβ I	40158	10 µg
PKCβ II	40159	10 µg
PKCγ	40160	10 µg
PKCδ	40161	10 µg
PKCε	40162	10 µg
PKCζ	40163	10 µg
PKCη	40164	10 µg
PKCθ	40165	10 µg
PKCμ	40166	10 µg
PKCν	40167	10 µg
PKC iota/lambda	40015	10 µg
PKD2	40168	10 µg
PKG1alpha	40084	10 µg
PKG1beta	40083	10 µg
PLK1	40033	10 µg
PLK2	40034	10 µg
PLK3	40035	10 µg
PLK3 Polo Box Domain	50302	100 µg
PLK4	40236	10 µg
PNK2/PRK2	40169	10 µg
PRKG2	40170	10 µg
PRKX	40171	10 µg
QIK	40264	10 µg
aRAF	40010	10 µg
bRaF (V600E)	40175	10 µg
bRAF/p50	40005	10 µg
cRAF	40008	10 µg
RIPK2	40173	10 µg
RIPK5	40174	10 µg
PRKG1	40175	10 µg
RSK1	40172	10 µg
RSK2	40181	10 µg
RSK3	40182	10 µg
RSK4	40183	10 µg
ROCK1	40085	10 µg
ROCK2	40086	10 µg
SGK1	40271	10 µg
SGK2	40272	10 µg
SGK3	40273	10 µg
SIK (SNF1LK)	40274	10 µg
SLK	40275	10 µg

## Active Ser/Thr Kinases, continued

Active Enzymes	Cat. #	Amount
SOK1	40276	10 µg
SRPK1	40277	10 µg
SPRK2	40278	10 µg
STK33	40093	10 µg
TAK1-TAB1	40279	10 µg
TAOK1	40283	10 µg
TAOK2	40284	10 µg
TBK1	40286	10 µg
TGFβR2	40205	10 µg
TLK2	40287	10 µg
TOPK	40288	10 µg
mTOR (FRAP1)	40661	10 µg
TSSK1B	40289	10 µg
TSSK2	40290	10 µg
ULK2	40294	10 µg
ULK3	40295	10 µg
VRK1	40397	10 µg
ZAK	40297	10 µg

## Kinase Substrates

Inactive Enzymes	Cat. #	Amount
4EBP1	40510	100 µg
Akt1 (inactive)	40000	100 µg
Akt2 (inactive)	40001	100 µg
ATF2	40520	1 mg
Cofilin	40525	200 µg
EiF4e	40530	100 µg
ERK2 (inactive)	40056	100 µg
JNK1-β1(K55M) (inactive)	40871	100 µg
LC20, Mouse	50127	20 µg
MAPKAPK2	40088	100 µg
MAPK14 (inactive)	40091	100 µg
MBP	40535	100 µg
MEK1	40075	100 µg
Rb	40595	200 µg

## Kinase Inhibitors

Inhibitors	Cat. #	Amount
Geldanamycin	27008	5 mg
Afatinib	27009	10 mg
GDC-0941	20000	10 mg
PIK-75	27001	10 mg
Staurosporine	27002	1 mg

Check website for a complete listing



The #1 Source for Active Enzymes