

## 14-3-3 beta/alpha Protein, Mouse, Recombinant (E. coli, His)

### General Information

Synonyms:	Ywhab;Protein kinase C inhibitor protein 1 (KCIP-1);14-3-3 protein beta/alpha
Protein Construction:	1-246 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q9CQV8
Molecular Weight:	33.6 kDa (predicted)
AA Sequence:	MTMDKSELVQKAKLAEQAERYDDMAAAMKAVTEQGHLSNEERNLLSVAYKNVVGARRSSWRVISSIEQKT ERNEKKQQMKEYREKIEAELQDICNDVLELLDKYLILNATQAESKVFYLMKMGDYFRYLSEVASGENKQTTV SNSQQAYQEAFEISKKEMQPTHPIRLGLALNFSVFYYEILNSPEKACSLAKTAFDEAIAELDTLNEESYKDSTLI MQLLRDNLTLWTSENQGDAGEGEN

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways. Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif. Binding generally results in the modulation of the activity of the binding partner. Negative regulator of osteogenesis. Blocks the nuclear translocation of the phosphorylated form (by AKT1) of SRPK2 and antagonizes its

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stimulatory effect on cyclin D1 expression resulting in blockage of neuronal apoptosis elicited by SRPK2. Negative regulator of signaling cascades that mediate activation of MAP kinases via AKAP13.

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