

# Recombinant Human Casein kinase I isoform epsilon(CSNK1E)

Catalog No: #AP70200

Package Size: #AP70200-1 20ug #AP70200-2 100ug #AP70200-3 1mg

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## Description

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | Recombinant Human Casein kinase I isoform epsilon(CSNK1E)                                                                                                                                                                                                                                                                                                                                                                                       |
| Host Species          | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Purification          | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                     |
| Immunogen Description | Expression Region:1-416aaSequence Info:Full Length                                                                                                                                                                                                                                                                                                                                                                                              |
| Accession No.         | P49674                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Calculated MW         | 51.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Tag Info              | N-terminal 6xHis-tagged                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Target Sequence       | MELRVGNKYRLGRKIGSGSFGDIYLGANIASGEEVAIKLECVKTKHPQLHIESKFYKMMQGGVGIPSIKWCGAE<br>GDYNVMVMELLGPSLEDLFNFCSRKFSLKTVLLADQMISRIEYIHSKNFIHRDVKPDNFMGLGKKGNLVYIID<br>FGLAKKYRDARTHQHIPPYRENKNLTGTARYASINTHLGIEQSRDDLES LGYVLMYFNLGSLPWQGLKAATKR<br>QKYERISEKKMSTPIEVLCKGYPSEFSTYLNFCRSLRFDDKPDYSYLRQLFRNLFHRQGFSDYVFDWNMLKF<br>GAARNPEDVDRERREHEREERMGQLRGSATRALPPGPPTGATANRLRSAEPVASTPASRIQPAGNTSPRAI<br>SRVDRERKVSMLHRGAPANVSSDLTGRQEVSRIPASQTSVPFDHLGK |
| Formulation           | Tris-based buffer50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Storage               | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br><br>Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                 |

## Background

Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. Can phosphorylate a large number of proteins. Participates in Wnt signaling. Phosphorylates DVL1. Central component of the circadian clock. In balance with PP1, determines the circadian period length, through the regulation of the speed and rhythmicity of PER1 and PER2 phosphorylation. Controls PER1 and PER2 nuclear transport and degradation. Inhibits cytokine-induced granulocyte differentiation.

## References

Initial characterization of the human central proteome.Burkard T.R., Planyavsky M., Kaupe I., Breitwieser F.P., Buerckstuehmer T., Bennett K.L., Superti-Furga G., Colinge J.BMC Syst. Biol. 5:17-17(2011)Research Topic:Signal Transduction

Note: This product is for in vitro research use only and is not intended for use in humans or animals.