6042 Cornerstone Court W, Ste B
San Diego, CA 92121
Tel: 1.858.202.1401
Fax: 1.858.481.8694
Email: info@bpsbioscience.com

Data Sheet

CDC7/DBF4 Complex

Human, Recombinant, N-terminal GST-tags
Catalog #: 100538
Lot #: 191024 **Conc.:** 0.1 mg/ml

Formulated in: 50 mM Tris-HCL, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF and 25% glycerol.

Stability: At least 6 months at –80°C. *Avoid freeze/thaw cycles.*

Reference:

1. Hess, G. F. *et. al. Gene* **211**: 133-140, 1998.
2. Sheu, Y.-J *et. al. Nature* **463:** 113-117, 2010

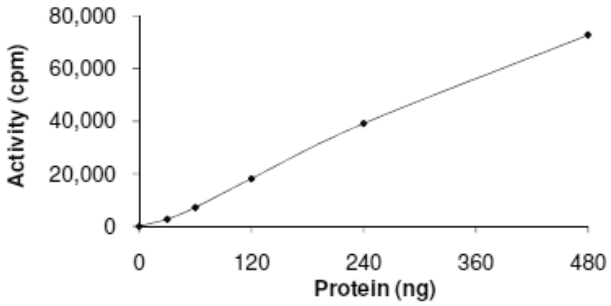
Description: CDC7/DBF4 complex of human **CDC7**, also known as HsCDC7 and Hsk 1, GenBank Accession No. NM_003503 a.a. 1-574(end) with N-terminal GST-tag and MW= 94 kDa, and human **DBF4**, also known as ASK and CHIF, GenBank Accession No. NM_006716, a.a. 1-674(end) with N-terminal GST-tag and MW= 125 kDa, co-expressed expressed in an Sf9 infected baculovirus expression system.

Specific Activity: ≥8 pmol/min/µg
Assay Conditions: 5 mM MOPS, 2.5 mM β-glycerophosphate, 5 mM $MgCl_2$, 1 mM EGTA, 0.4 mM EDTA, 0.05 mM DTT, 50 ng/ml BSA, 2 mM ATP, 200 µg of PDKtide synthetic peptide substrate. Add [33P]-ATP and incubate at 30°C for 15 minutes, then spot reaction on phosphocellulose paper, fix in 1% phosphoric acid, and assay with a scintillation counter.

Applications: Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Quality Assurance

Specific Activity



4-20% SDS-PAGE
Coomassie staining

Lane 1:
CDC7/DBF4
Lane 2:
Protein Marker

MW: CDC7 94 kDa
DBF4 125 kDa

Purity: ≥85%