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Data Sheet

CDK14/Cyclin Y, GST-tags

Human, Recombinant, N-terminal GST-tags

Catalog #: 100602

Lot #: 191217

Conc.: 0.1 mg/ml

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

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

References:

1. Yang, T. *et al*, *Gene* **267**: 165-172, 2001.
2. Gao, Y. *et al*, *Cell Res.* **16**: 539-547, 2006.

Description: CDK14/Cyclin Y complex of human **CDK14**, also known as PFTK1 and PFTAIR1, GenBank Accession No. NM_012395, a.a. 1-469(end) with N-terminal GST-tag, MW=72 kDa, and human **Cyclin Y**, also known as CCNY, CBCP1, CCNX, and CFP1, GenBank Accession No. NM_145012, a.a. 2-341(end) with N-terminal GST-tag. MW=64 kDa. Co-expressed in a Baculovirus infected Sf9 cell expression system.

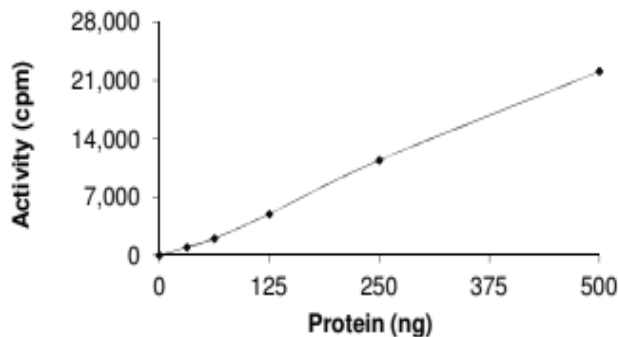
Specific Activity: ≥ 2.5 pmol/ $\mu\text{g}/\text{min}$

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 MBP (or Histone H1) as substrate. Add [^{33}P]-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



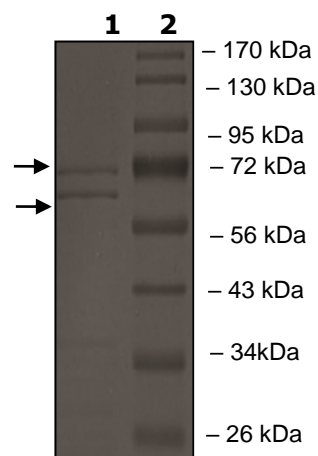
4-20% SDS-PAGE Coomassie staining

Lane 1:
CDK14/Cyclin Y

Lane 2:
Protein Marker

Purity: $\geq 85\%$

MW:
CDK14: 72 kDa
Cyclin Y: 64 kDa



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