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Data Sheet

p38 β , Active, GST-tag

Human, Recombinant, N-terminal GST tag
Catalog #: 40143
Lot #: 150617 **Conc.:** 0.10 mg/ml

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

Stability: At least 6 months at -80°C . Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%).

References:

1. Han, J. *et al.*, *Science*. **265**: 808-811, 1994.
2. Ge, B. *et al.*, *Science*. **295**: 1291-1294, 2002.

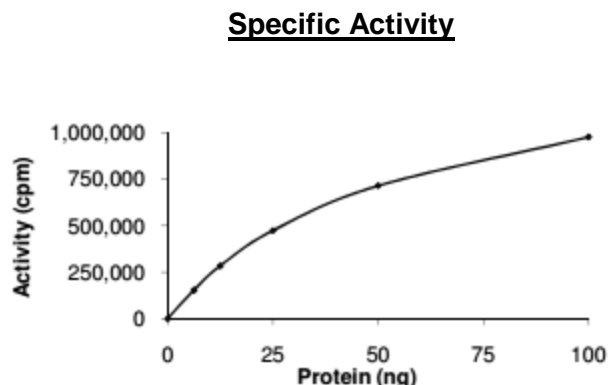
Description: Recombinant full-length human p38 β (Genbank Accession No. NM_002751) with an N-terminal GST-tag, expressed in Sf9 insect cells using a baculovirus expression system.

Specific Activity: 780 pmol/min/ μg

Assay conditions: Assay conditions were 5 mM MOPS, 2.5 mM β -glycero-phosphate, 5 mM MgCl_2 , 1 mM EGTA, 0.4 mM EDTA, 0.05 mM DTT, 50 $\mu\text{g/ml}$ BSA, 2 mM ATP, 0.2 mg/ml p38 substrate peptide (IPTTPITTTYFFFK) and 50 μM [^{33}P]-ATP at 30°C for 15 minutes. Spot reaction on phosphocellulose paper, fix in 1% phosphoric acid, and assay with a scintillation counter.

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

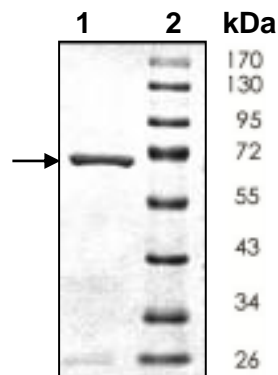
Quality Assurance



**10% SDS-PAGE
Coomassie staining**

Lane 1: p38 β
Lane 2: Protein Marker

MW: 71 kDa
Purity: >90%



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