

**Product:** p38alpha, active  
**Catalog #:** 02-2027  
**Amount:** 5 µg

**DESCRIPTION:**

p38alpha (SAPK2A) is a member of the p38 MAPK family which are activated by various environmental stresses and pro-inflammatory cytokines (1). The activation of p38 requires its phosphorylation by MAP kinase kinases (MKKs), or its autophosphorylation triggered by the interaction of MAP3K7IP1/TAB1 protein with this kinase (2). The substrates of p38 include transcription regulator ATF2, MEF2C, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which suggest the roles of this kinase in stress related transcription and cell cycle regulation, as well as in genotoxic stress response

The gene accession number is [NM 139012](#)

Gene Aliases: CSBP1; CSBP2; CSPB1; PRKM14; PRKM15; SAPK2A; MAPK14

**SOURCE:**

Recombinant full-length human p38alpha was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag

**MOLECULAR WEIGHT:**

67 kDa

**PURITY:**

> 90% (by densitometry)

**FORM:**

Purified, in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol

**CONCENTRATION:**

0.1 mg/ml

**SPECIFIC ACTIVITY:**

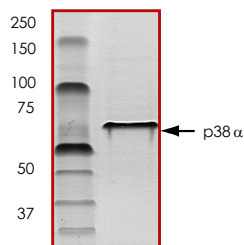
77 nmol/mim/mg

**STORAGE:**

-70°C (aliquot). AVOID repeated Freeze/thaw cycles

**REFERENCE:**

1. Han, J. et al: A MAP kinase targeted by endotoxin and hyperosmolarity in mammalian cells. *Science* 265: 808-811, 1994
2. Ge, B. et al: MAPKK-independent activation of p38-alpha mediated by TAB1-dependent autophosphorylation of p38-alpha. *Science* 295: 1291-1294, 2002



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