

**Product:** p38gamma, active  
**Catalog #:** 02-2030  
**Amount:** 5 µg

**DESCRIPTION:** p38 gamma is a member of the p38 MAPK family which is activated in response to stress (1). p38gamma gene was mapped to 22q13.3 and functions as a signal transducer during differentiation of myoblasts to myotubes. Enforced localization of p38gamma in the nucleus or cytoplasm markedly attenuates the ability of the kinase to induce cell cycle arrest in fibroblasts. p38gamma increases basal glucose uptake and decreases DNP- and contraction-stimulated glucose uptake, partially by affecting levels of glucose transporter expression in skeletal muscle (2)  
The gene accession number is [NM 002969](#)  
Gene Aliases: ERK3; ERK6; SAPK3; PRKM12; MAPK12

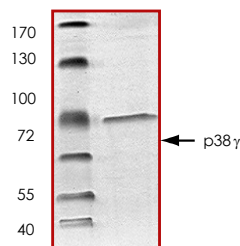
**SOURCE:** Recombinant full-length human p38gamma was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag

**MOLECULAR WEIGHT:** 71 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:** 66 nmol/mim/mg  
**STORAGE:** -70°C (aliquot). AVOID repeated Freeze/thaw cycles

**REFERENCE:**

1. Li, Z. et al: The primary structure of p38-gamma: a new member of p38 group of MAP kinases. *Biochem. Biophys. Res. Commun.* 228: 334-340, 1996
2. Ho, RC. et al: p38gamma MAPK regulation of glucose transporter expression and glucose uptake in L6 myotubes and mouse skeletal muscle. *Am J Physiol Regul Integr Comp Physiol.* 2004 Feb; 286(2):R342-9. Epub 2003 Oct 30



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