PRKD1
Recombinant Human PRKD1/PKC mu Active GST-His

Catalog No.	CSI12244	**Quantity:**	50 µg

Alternate Names: PKC-MU, PKCM, PKD, PRKCM, protein kinase C, mu

Description: Human PKC-mu, Amino acids M_1-L_{912} (as in GenBank entry NM_002742)*, N-terminally fused to GST-HIS_6-Thrombin cleavage site.
***Sequence may contain documented polymorphisms**
Detailed sequence on request.

Concentration: 0.120 µg/µl

Gene ID: 5587

Protein Accession No: NM_002742

Source: Baculovirus infected Sf9 cells

Molecular Weight: Theoretical $MW_{Fusion\ Protein}$: 139,489 Da

Formulation: 50 mM Tris-HCl, pH 8.0; 100 mM NaCl, 5 mM DTT, 15 mM reduced glutathione, 20% glycerol

Purification: One-step affinity purification using GSH-agarose

Product Identity: PKC-mu was confirmed as PKC-mu by mass spectroscopy LC-ESI-MS/MS

Specific Activity: 4 pmol/µg×min

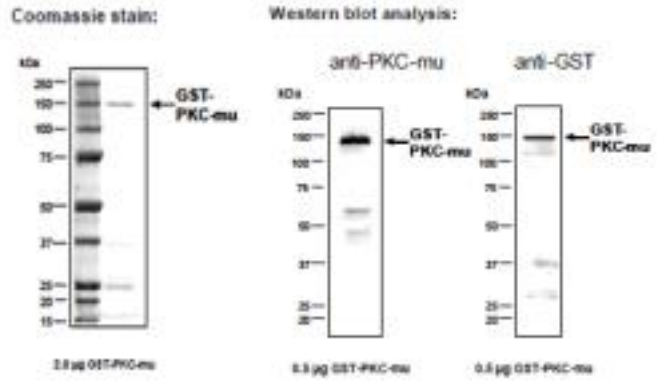
Method for determination of Km value and specific activity:
• Assay conditions:
60 mM HEPES-NaOH, pH 7.5
3 mM $MgCl_2$
3 mM $MnCl_2$
3 µM Na-orthovanadate
1.2 mM DTT
50 µg / ml $PEG_{20.000}$
ATP (variable)
Substrate: tetra(LRRWSLG), 4.0 µg / ml
Recombinant PKC-mu: 10 µg / ml
• Filter binding assay
MSPH membrane (Millipore)

Cell Sciences®
480 Neponset Street
Bldg 12A
Canton, MA 02021

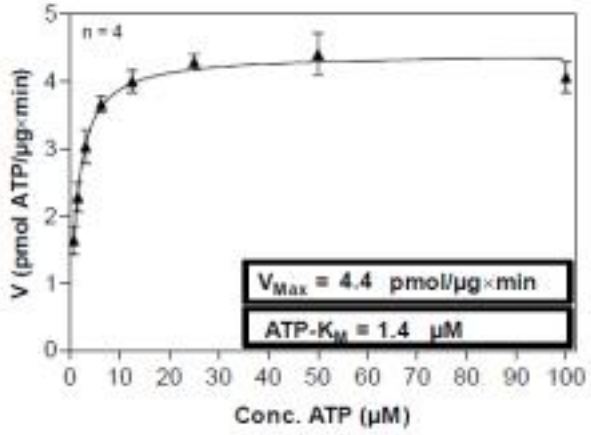
Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Website: www.cellsciences.com

Storage & Stability: Store in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**



Determination of Km value for ATP:



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Cell Sciences®
480 Neponset Street
Bldg 12A
Canton, MA 02021

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Phone: 781-828-0610
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E-mail: info@cellsciences.com
Website: www.cellsciences.com