

PTK6

Recombinant Human Breast Tumor Kinase Active GST-His

| | | | |
|------------------------------|---|------------------|-------|
| Catalog No. | CSI11174 | Quantity: | 50 µg |
| Alternate Names: | BRK, FLJ42088, breast tumor kinase, protein-tyrosine kinase BRK | | |
| Description: | Human BRK, Amino acids M ₁ -T ₄₅₁ (as in GenBank entry NM_005975)*, N-terminally fused to GST-HIS6-Thrombin cleavage site. *Sequence may contain documented polymorphisms Detailed sequence on request | | |
| Concentration: | 0.160 µg/µl | | |
| Gene ID: | 5753 | | |
| Protein Accession No: | NM_005975 | | |
| Source: | Baculovirus infected Sf9 cells | | |
| Molecular Weight: | Theoretical MW _{Fusion Protein} : 81,790 Da | | |
| Formulation: | 50 mM Tris-HCl, pH 8.0 + 100 mM NaCl + 5 mM DTT + 4 mM reduced glutathione, 20% glycerol | | |
| Purification: | One-step affinity purification using GSH-agarose | | |
| Product Identity: | BRK was confirmed as human BRK by mass spectroscopy LC-ESI-MS/MS | | |
| Specific Activity: | 31 pmol/µg×min | | |

Method for determination of K_m value and specific activity:

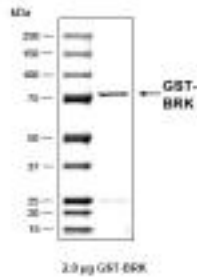
- Assay conditions:
60 mM HEPES-NaOH, pH 7.5
3 mM MgCl₂
3 mM MnCl₂
3 µM Na-orthovanadate
1.2 mM DTT
2.5 µg / 50 µl PEG_{20,000}
ATP (variable)
Substrate: Poly(Glu:Tyr)_{4:1}
(Sigma P-0275), 1.0 µg / 50 µl
Recombinant BRK: 50 ng / 50 µl
- Filter binding assay
MAFC membrane (Millipore)

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

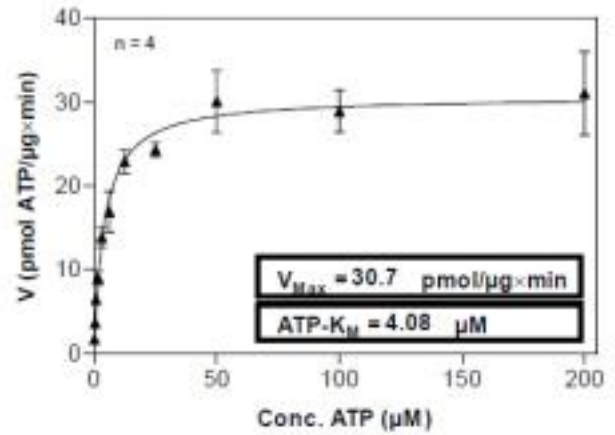
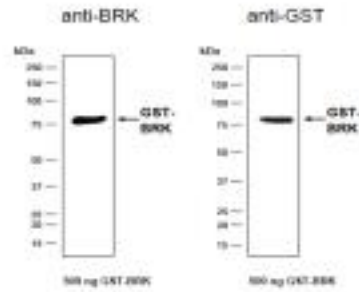


Determination of K_m value for ATP:

Coomassie stain:



Western blot analysis:



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