

BRAF

Recombinant Human BRAF (VE) Active GST-His

Catalog No.	CSI11172	Quantity:	50 µg
Alternate Names:	B-RAF1, BRAF1, FLJ95109, MGC126806, MGC138284, RAFB1, 94 kDa B-raf protein, B-Raf, B-Raf proto-oncogene serine/threonine-protein kinase (p94), murine sarcoma viral (v-raf) oncogene homolog B1		
Description:	Human B-RAF, C-terminal fragment, amino acids Q ₄₁₇ -H ₇₆₆ (as in GenBank entry NM_004333.2)*, mutationally activated: V600E, N-terminal GST-HIS ₆ fusion protein with a Thrombin cleavage site, expressed in Sf9 insect cells. *Sequence may contain documented polymorphisms Detailed sequence on request		
Concentration:	0.190 µg/µl		
Gene ID:	673		
Protein Accession No:	NM_004333.2		
Source:	Baculovirus infected Sf9 cells		
Molecular Weight:	Theoretical MW _{Fusion Protein} : 69,157 Da		
Formulation:	50 mM HEPES, pH 7.5 + 100 mM NaCl + 5 mM DTT + 4 mM reduced glutathione, 20% glycerol		
Purification:	GST-Affinity Chromatography		
Product Identity:	B-RAF V600E was confirmed as B-RAF VE by mass spectroscopy LCESI-MS/MS		
Specific Activity:	197 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
50 µg / ml PEG_{20,000}
ATP (variable)
Substrate: MEK1-KM, 60 µg / ml
B-RAF V600E: 0.5 µg / ml
- Filter binding assay
MSFC membrane (Millipore)

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



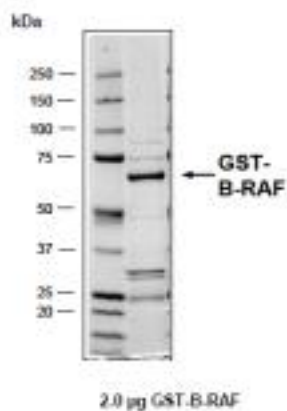
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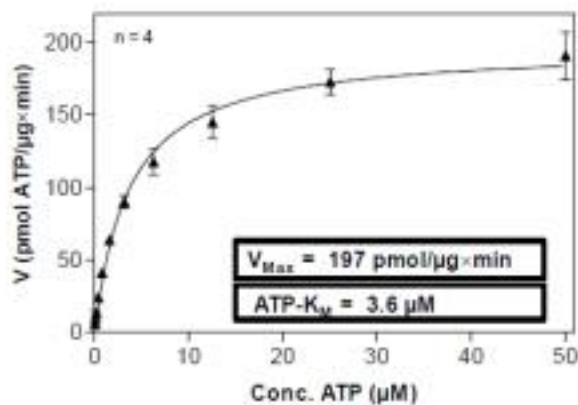
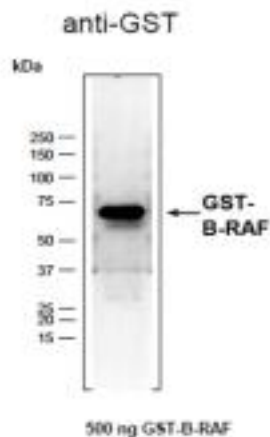
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Determination of K_m value for ATP:

Coomassie stain:



Western blot analysis:



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