cellsciences.com

NUAK2
Recombinant Human SNARK/NUAK2 Active GST-His

Catalog No.	CRS016	**Quantity:**	50 µg

Alternate Names: DKFZp434J037, DKFZp686F01113, FLJ90349, SNARK, SNF1/AMP activated protein kinase

Description: Human SNARK. Amino acids M_1-T_{628} (as in GenBank entry NM_030952)*, N-terminally fused to GST-HIS_{6}. Thrombin cleavage site.
***Sequence may contain documented polymorphisms**
Detailed sequence on request

Concentration: 0.085 µg/µl

Gene ID: 81788

Protein Accession No: NM_030952)

Source: Baculovirus infected Sf9 cells

Molecular Weight: Theoretical $MW_{Fusion\ Protein}$: 99,007 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: SNARK, was confirmed as human SNARK by mass spectroscopy LC-ESIMS/MS

Activation: Activation with PDK1 (GenBank accession No.: NM_002613)

Specific Activity: 6 pmol/µg×min

Method for determination of K_m 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
2.5 µg / 50 µl $PEG_{20.000}$
ATP (variable)
Substrate: Myelin Basic Protein, 2.5 µg / 50 µl
Recombinant SNARK: 200 ng / 50 µl
• Filter binding assay
MSPH membrane (Millipore)

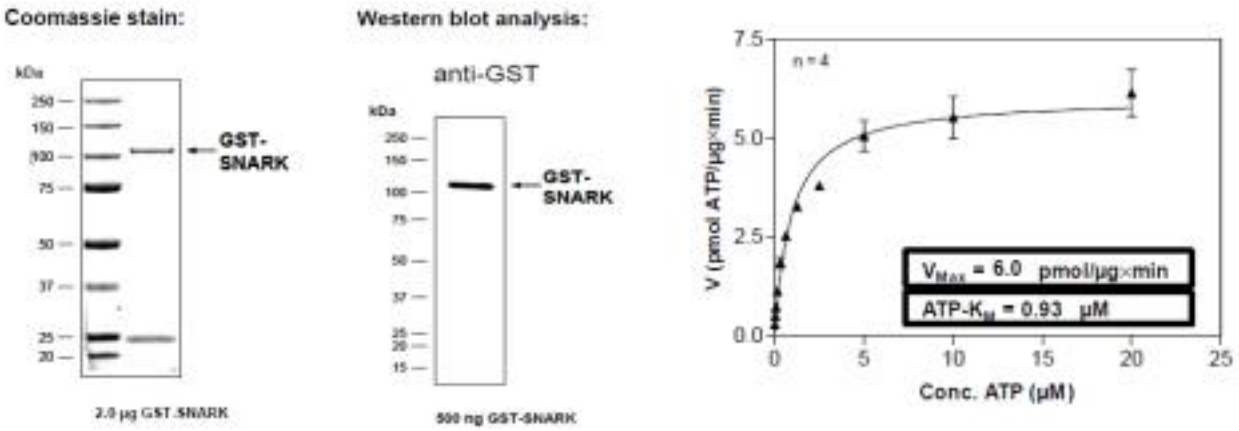
Storage & Stability: Store in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**

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

Determination of Km value for ATP:



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