

Division of Signal Transduction Therapy

Standard Operating Procedure

Preparation of SV2A [1 - 160]

<u>Enzyme description:-</u>	SV2A [1 - 160]
<u>Clone number:-</u>	DU 38732
<u>Source:-</u>	Recombinant
<u>Expression system:-</u>	<i>E.coli</i>
<u>Tag:-</u>	N-terminal GST
<u>Purification method:-</u>	GSH Sepharose

Calculated molecular mass:-

Monoisotopic 44, 405.88 daltons
Average Mass 44, 433.97 daltons
[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 4.93

Purity:- >80 %

Enzyme storage buffer:-

50 mM Tris-HCl pH 7.5, 270 mM Sucrose, 150 mM NaCl, 0.1 mM EGTA,
0.1 % 2-mercaptoethanol, 0.02 % Brij-35, 1 mM benzamidine, 0.2 mM PMSF

Storage temperature:- -70 °C

Division of Signal Transduction Therapy

Clone Data Sheet

SV2A [1 - 160]

<u>Protein</u>	SV2A [1 - 160]
<u>Clone number</u>	DU 38732
<u>Species</u>	Human
<u>Accession number</u>	AAH45111.1
<u>Tags</u>	N-terminal GST
<u>Bacterially expressed protein</u>	<p>MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELG LEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAESMLEGA VLDIRYGVSR IAYS KDFETLKVDFLSKLP EMLKMFEDRLCHKTYLNGDH VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKYLKSS KYIAWPLQGWQATFGGGDHPPKSDLEVL FQGPLGSMEEGFRDRAAFIRG AKDIAKEVKKHAAKVVVKGLDRVQDEYSRRS YSRFEEEDDDDDFPAPSD GYYRGEGTQDEEEGGASSDATEGHDEDEIYEGEYQGI PRAESGGKGER MADGAPLAGVRGGLSDGEGPPGGRGEAQRKEREELAQQYEAILRECG</p>
<u>Native sequence</u>	<p>Amino acids M1 – G160 (Q742 end residue) of human SV2A. Residue M232 of the fusion protein is equivalent to M1 of the native enzyme. The GST tag is located at residues 1 – 220.</p>
<u>Protease cleavage</u>	PreScission (<u>LEVLFQGP</u>) residues 221 - 228
<u>Cloning sites</u>	<i>Bam</i> H1 and <i>Not</i> 1 of pGEX6P-1

Division of Signal Transduction Therapy