

Selenide, water dikinase 2 (SEPHS2) Recombinant Protein | SEPHS2 recombinant protein

Recombinant Human Selenide, water dikinase 2 (SEPHS2)

CATALOG #
AAA117173

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

PRODUCT SYNONYMS

Selenide; water dikinase 2 (SEPHS2); Recombinant Human Selenide; SEPHS2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	2-448aa(U60S); Full Length of Mature Protein
Sequence	AEASATGACG EAMAAAEGSS GPAGLTGRS FSNYRPFEPQ ALGLSPSWRL TGFSGMKGSG CKVPQEALLK LLAGLTRPDV RPPLGRGLVG GQEEASQEAG LPAGAGPSPT FPALGIGMDS CVIPLRHGGL SLVQTTDFFY PLVEDPYMMG RIACANVLSD LYAMGITECD NMLMLLSVSQ SMSEEEREKV TPLMVKGFRD AAEEGGTAVT GGQTVVNPWI IIGGVATVVC QPNEFIMPDS AVVGDLVLT KPLGTQVAVN AHQWLDNPER WNKVKMVVSR EEVELAYQEA MFNMATLNRT AAGLMHTFNA HAATDITGFG ILGHSQNLAK QQRNEVSFVI HNLPIIAKMA AVSKASGRFG LLQGTSAETS GGLLICLPRE QAARFCSEIK SSKYGEQHQA WIVGIVEKGN RTARIIDKPR VIEVLPRGAT AAVLAPDSSN ASSEPSS[There isaselenoc ysteine(U) intheorigi nalsequenc e(Q99611). The'U'hasa lreadybeen replacedwi thserine(S) inthesequ encepriort oproteinma nufacture. Reason:Uis generallyu sedasastop codoninpro karyoticce lls].
Species	Human
Sequence Note	The sequence corresponds to Uniprot , expression region 2-448aa (U60S)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

IMAGES

10	20	30	40	50
MAEASATGAC	GEAMAAEGS	SGPAGLTGR	SFSNYRPFEP	QALGLSPSWR
60	70	80	90	100
LTGFSGMKG	GCKVPQEALL	KLLAGLTRPD	VRPPLGRGLV	GGQEEASQEA
110	120	130	140	150
GLPAGAGPSP	TFPALGIGMD	SCVIPLRHGG	LSLVQTTDFF	YPLVEDPYMM
160	170	180	190	200
GRACANVLS	DLYAMGITEC	DNMLMLLSVS	QSMSEEEREK	VTPLMVKGFR
210	220	230	240	250
DAEEEGGTAV	TGGQTVVNPW	IIGGVATVVC	QPNEFIMPDS	SAVVGDLVLT
260	270	280	290	300
TKPLGTQVAV	NAHQWLDNPE	RWNKVKMVVS	REEVELAYQE	AMFNMATLNR
310	320	330	340	350
TAAGLMHTFN	AHAATDITGF	GILGHSQNLAK	QQRNEVSFVI	IHNLPPIAKM
360	370	380	390	400
AAVSKASGRF	GLLQGTSAET	SGGLLICLPRE	EQAARFCSEI	KSSKYGEQHQA
410	420	430	440	
AWIVGIVEKGN	RTARIIDKPR	RVIEVLPRGA	TAAVLAPDSS	NASSEPSS

Sequence

There is a selenocysteine (U) in the original sequence (Q99611), red arrow and yellow highlight. The 'U' at position 60 was replaced with serine (S) in the sequence prior to protein manufacture.

ADDITIONAL INFORMATION

Related Product Information for SEPHS2 recombinant protein	This gene encodes an enzyme that synthesizes selenophosphate from selenide and ATP. Selenophosphate is the selenium donor used to synthesize selenocysteine, which is co-translationally incorporated into selenoproteins at in-frame UGA codons. This protein itself contains a selenocysteine residue in its predicted active site. The 3' UTR of the gene has a stem-loop secondary structure called a selenocysteine insertion sequence (SECIS) element, which allows UGA to direct the incorporation of selenocysteine rather than signal a translational stop. Alternatively spliced transcripts have been identified, but their biological validity has not been determined.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	15011844
NCBI GeneID	22928
NCBI Accession #	NP_036380.2
NCBI GenBank Nucleotide #	NM_012248.3
UniProt Accession #	Q99611; Q9BUQ2
Molecular Weight	47,305 Da
NCBI Official Full Name	selenide, water dikinase 2
NCBI Official Synonym Full Names	selenophosphate synthetase 2
NCBI Official Symbol	SEPHS2
NCBI Official Synonym Symbols	SPS2
NCBI Protein Information	selenide, water dikinase 2
UniProt Protein Name	Selenide, water dikinase 2
UniProt Gene Name	SEPHS2
UniProt Synonym Gene Names	SPS2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/sephs2-recombinant-protein-e-coli/117173>