

Recombinant Human SHC1, His-tagged

Cat. No. SHC1-30065TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment from Human SHC1 (aa 1-474) with N terminal His-tag; 494aa (53.8 kDa), inclusive of tag.
Species	Human
Source	E.coli
ProteinLength	474 amino acids
Description	This gene encodes three main isoforms that differ in activities and subcellular location. While all three are adapter proteins in signal transduction pathways, the longest (p66Shc) may be involved in regulating life span and the effects of reactive oxygen species. The other two isoforms, p52Shc and p46Shc, link activated receptor tyrosine kinases to the Ras pathway by recruitment of the GRB2/SOS complex. p66Shc is not involved in Ras activation. Unlike the other two isoforms, p46Shc is targeted to the mitochondrial matrix. Several transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Molecular Weight	53.800kDa inclusive of tags
Tissue specificity	Widely expressed. Expressed in neural stem cells but absent in mature neurons.
Form	Liquid

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Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20% Glycerol, 200mM Sodium chloride, 20mM Tris HCl, 2mM DTT, 0.1mM PMSF, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHFNTTRTQVTREAISLVCEAVPGAKGATRRRKPCSRP LSSILGRSNLKFAGMPITLTVSTSSLNLMAADCKQIIANHHMQSISFASGGDPDTMNK LSGGGGRRTRVEGGQLGGEEWTRHGSFVNKPTRGWLHPNDKVMGPGVSYLVRY MGCVEVLQSMRALDAEYVAYVAKDPVNQRACHILECPEGLAQDVISTIGQAFELRFK QYLRNPPKLVTPHDRAMAGFDGSAWDEEEEEPPDHQYYNDFPGKEPPLGGVDMR LREGAAPGAARPTAPNAQTPSHLGATLPVGQPVGGDPEVRKQMPPPPPCPAGREL FDDPSYVNVQNLDKARQAVGGAGPPNPAINGSAPRDLFDMKPFEDALRVPPPPQS VMAEQLRGEPWFH GKLSRREAEALLQLNGDFLVRESTTTPGQYVLTGLQSGQPK HLLLVDPEGVVRTKDH RFESVSHLISYHMDNHLPIISAGSELCLQQPVERKL
Sequence Similarities	Contains 1 PID domain.Contains 1 SH2 domain.
GENE INFORMATION	
Gene Name	SHC1 SHC (Src homology 2 domain containing) transforming protein 1 [Homo sapiens]
Official Symbol	SHC1
Synonyms	SHC1; SHC (Src homology 2 domain containing) transforming protein 1; SHC, SHC (Src homology 2 domain containing) transforming protein 1; SHC-transforming protein 1; p66;

Gene ID	6464
mRNA Refseq	NM_001130040
Protein Refseq	NP_001123512
MIM	600560
Uniprot ID	P29353
Chromosome Location	1q21
Pathway	Activation of Chaperones by IRE1alpha, organism-specific biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; BCR signaling pathway, organism-specific biosystem;
Function	ephrin receptor binding; epidermal growth factor receptor binding; epidermal growth factor receptor binding; insulin receptor binding; insulin-like growth factor receptor binding;