

SCLY Protein, Human (His)

Cat. No.:	HY-P71280
Synonyms:	Selenocysteine Lyase; hSCL; SCLY; SCL
Species:	Human
Source:	E. coli
Accession:	Q96I15 (M1-A445)
Gene ID:	51540
Molecular Weight:	50-55 kDa

PROPERTIES

AA Sequence	<pre> MEAAVAPGRD APAPAAASQPS GCGKHNSPER KVYMDYNATT PLEPEVIQAM TKAMWEAWGN PSSPYSAGRK AKDIINAARE SLAKMIGGKPK QDIIFTSGGT ESNNLVIHSV VKHFHANQTS KGHTGGHHS VKGAKPHFIT SSVEHDSIRL PLEHLVEEQV AAVTFVPVSK VSGQAEVDDI LAAVRPTTRL VTIMLANNET GIVMPVPEIS QRIKALNQER VAAGLPPILV HTDAAQALGK QRVDVEDLGV DFLTIVGHKF YGPRIGALYI RGLGEFTPLY PMLFGGGQER NFRPGTENTP MIAGLGKAAE LVTQNCEAYE AHMRDVRDYL EERLEAEFGQ KRIHLNSQFP GTQRLPNTCN FSIRGPRLQG HVVLAQCRVL MASVGAACHS DHGDQPSPLV LSYGVFPDVA RNALRLSVGR STTRAEVDLV VQDLKQAVAQ LEDQA </pre>
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	Selenocysteine lyase (SCLY) is an enzyme that plays a crucial role in the decomposition of L-selenocysteine. Specifically,
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SCLY catalyzes the reaction that breaks down L-selenocysteine into L-alanine and elemental selenium. This enzymatic activity is significant in selenium metabolism, as it contributes to the release of selenium from selenoproteins and its subsequent utilization in various cellular processes. Selenocysteine is a unique amino acid that incorporates selenium into proteins, and its decomposition by SCLY is essential for selenium recycling and maintaining cellular selenium homeostasis. It has to highlight SCLY's specific role in the metabolic processing of selenocysteine, shedding light on its importance in selenium biology and the regulation of cellular selenium levels.

Caution: Product has not been fully validated for medical applications. For research use only.

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