

SIL-KRAS(G12C) protein standard – Arg/Lys ¹³ C ¹⁵ N labelling	
Human K-RAS (Uniprot accession number P01116-2 (1-169)) G12C mutant	
Product Description	Recombinant human K-RAS (1-169 sequence – G12C mutant) was expressed in <i>E. coli</i> with polyHis purification tag and purified using proprietary method including affinity chromatography.
Protein sequence	MSGSHHHHHHSSGIEGRMTEYKLVVVGACGVGKSALTIQLIQNHVFDEYDPTI EDSYRKQVVIDGETCLLDILDITAGQEEYSAMRDQYMRTGEGFLCVFAINNTKS FEDIHHYREQIKRVKDSVDVPMVLVGNKCDLPSRTVDTKQAQDLARSYGIPFIE TSAKTRQGVDDAFYTLVREIRKHKEK
Predicted Molecular Mass	21.16 kDa
Expression system	<i>E. coli</i>
Purity	Greater than 90% as determined by SDS-PAGE analysis
Labelling	ARG- ¹³ C ₆ , ¹⁵ N ₄ and LYS- ¹³ C ₆ , ¹⁵ N ₄ >99% as determined by LC-MS/MS analysis of trypsin digested SIL-protein
Tag information	PolyHis tag at the N-terminus
Protein Content	Quantitation is carried out by BCA protein assay
Formulation	Lyophilized from 20 mM HEPES, pH7.5, 150 mM NaCl and 1 mM DTT buffer. Reconstitute by adding ultrapure H ₂ O.
Shipping and storage	The product is supplied as a lyophilized powder and shipped at room temperature. Store at -80°C upon receipt. After reconstitution, protein can be kept at 4°C for a few weeks. Avoid repeated freeze/thaw cycles.
Usage	The product is for research use only. Not for diagnostic or therapeutic use.

