

Product Name	Recombinant Human Kras G12A, GST-Tag		
Synonym(s)	KRAS2, RASK2, C-K-RAS, CFC2, KRAS proto-oncogene		
Quantity	50 µg, 100 µg		
GenBank #	NM_004985.5		
UniProt #	P01116		
Amino Acids	a. a. 1-169		
Molecular weight	46.02 kDa		
Purity	>95% by SDS-PAGE		
Tag	N-GST Tagged		
Expression Source	E. coli		
Application	Inhibitor Screening, binding assays, GDP/GTP nucleotide exchange reaction, ELISA, Immunoaffinity Purification, Protein Array, Western Blot.		
Formulation	20 mM HEPES pH 7.5, 50 mM NaCl, 1 mM DTT, 10% glycerol, 10 mM MgCl ₂		
Storage and Stability	Stable for at least 6 months at -80°C, Avoid freeze/thaw cycles		
Description	Kras is a member of the RAS protein family, which are a class of small GTPases involved in cell signaling. Plays a role in promoting oncogenic events by inducing transcriptional silencing of tumor suppressor genes (TSGs) in colorectal cancer (CRC) cells in a ZNF304-dependent manner. The protein also contains mutation of interested G12A.		
Reference	Roman C. Hillig, et al. PNAS. 2019, vol. 116, no. 7, 2551–2560 Kari Kopra, et al. Anal. Chem. 2020, 92, 4971–4979 Fernández-Medarde A., et al. Genes (Basel). 2021;12(5):681.		

Related products:

Product Name	Catalog #	Size
Kras Wild Type (WT), GST-tag	5727-4121G	50 µg, 100 µg
Kras WT, GST-tag, GDP Loaded	5727-WTG-G	50 µg, 100 µg
Kras WT, GST-tag, GppNHp loaded	5727-WTG-GP	50 µg, 100 µg
Kras G12C, GST-tag	5727-4122G	50 µg, 100 µg
Kras G12C, GST-tag, GDP Loaded	5727-4122G -G	50 µg, 100 µg
Kras G12C, GST-tag, GppNHp loaded	5727-4122G -GP	50 µg, 100 µg
Kras G12D, GST-tag	5727-4123G	50 µg, 100 µg
Kras G12D, GST-tag, GDP Loaded	5727-4123G -G	50 µg, 100 µg
Kras G12D, GST-tag, GppNHp loaded	5727-4123G -GP	50 µg, 100 µg
Kras G12V, GST-tag,	5727-4128G	50 µg, 100 µg
Kras G12V, GST-tag, GDP Loaded	5727-4128G -G	50 µg, 100 µg
Kras G12V, GST-tag, GppNHp loaded	5727-4128G -GP	50 µg, 100 µg
Kras G13D, GST-tag	5727-4133G	50 µg, 100 µg

Kras G13D, GST-tag, GDP Loaded	5727-4133G -G	50 µg, 100 µg
Kras G13D, GST-tag, GppNHp loaded	5727-4133G -GP	50 µg, 100 µg
Kras Q61H, GST-tag	5727-7614G	50 µg, 100 µg
Kras Q61H, GST-tag, GDP Loaded	5727-7614G -G	50 µg, 100 µg
Kras Q61H, GST-tag, GppNHp loaded	5727-7614G -GP	50 µg, 100 µg
Kras Q61R, GST-tag	5727-7617G	50 µg, 100 µg
Kras Q61R, GST-tag, GDP Loaded	5727-7617G -G	50 µg, 100 µg
Kras Q61R, GST-tag, GppNHp loaded	5727-7617G -GP	50 µg, 100 µg
Human RBD-RAF1, N-His tag, C-FLAG tag	7237231	50 µg, 100 µg
Human SOS1, No tag	7671	50 µg, 100 µg
Human SOS1, Avi-His tag	7671HA	50 µg, 100 µg
Kras WT Nucleotide Exchange Assay Kit	5727-4121NK	384 reactions
Kras G12C Nucleotide Exchange Assay Kit	5727-4122NK	384 reactions
Kras G12D Nucleotide Exchange Assay Kit	5727-4123NK	384 reactions
Kras G12A Nucleotide Exchange Assay Kit	5727-412ANK	384 reactions
Kras G12V Nucleotide Exchange Assay Kit	5727-4128NK	384 reactions
Kras Q61H Nucleotide Exchange Assay Kit	5727-7614NK	384 reactions
Kras Q61K Nucleotide Exchange Assay Kit	5727-7615NK	384 reactions
Kras Q61R Nucleotide Exchange Assay Kit	5727-7617NK	384 reactions
Kras WT – cRAF Binding Assay Kit	5727-4121BK	384 reactions
Kras G12C – cRAF Binding Assay Kit	5727-4122BK	384 reactions
Kras G12C– cRAF Binding Assay Kit	5727-4123BK	384 reactions
Kras G12A– cRAF Binding Assay Kit	5727-412ABK	384 reactions
Kras G12V – cRAF Binding Assay Kit	5727-4128BK	384 reactions
Kras Q61R – cRAF Binding Assay Kit	5727-7617BK	384 reactions
Kras WT/cRAF/CYPA/Inhibitor Assay Kit	5727-4121CK	384 reactions
Kras G12C/cRAF/CYPA/Inhibitor Assay Kit	5727-4122CK	384 reactions
Kras G12D/cRAF/CYPA/Inhibitor Assay Kit	5727-4123CK	384 reactions
Kras G12V/cRAF/CYPA/Inhibitor Assay Kit	5727-4128CK	384 reactions
Kras G13D/cRAF/CYPA/Inhibitor Assay Kit	5727-4133CK	384 reactions
TEV Protease	190001-R	1,000 Units, 10,000 Units
TEV Protease-His	190001-R	50 ug, 200 ug, 1 mg
PreScission Protease (HRV 3C)	190002	1,000 units, 10,000 units
Recombinant SUMO Protease (Ulp1)	190003	1,000 units, 10,000 units
TEV Protease-GST	190004	50 ug, 200 ug, 1 mg
AiTEV™ Protease	190005-R	50 µg, 200 µg, 1 mg
Recombinant YopH	200100	10 ug, 20 ug, 100 ug, 1 mg
Recombinant Biotin Protein Ligase (BirA)	90101	100 ug
Recombinant SortaseA-5M	90201	50 ug
Recombinant Mouse Leukemia Inhibitory Factor	11-0001	10 ug, 100 ug
Recombinant Human LIF	12-0002	10 ug, 100 ug, 1 mg
Recombinant Human FGF-basic, Carrier-free	12-0005CFR	50 ug, 100 ug, 500 ug, 1 mg
DNA Polymerase Theta-N-Helicase Domain	7657643	20 ug, 100 ug
DNA Polymerase Theta-C terminal Domain	7657283	20 ug, 100 ug, 1 mg
Recombinant Human PD-1	23731	100 ug
Recombinant Human PD-L1	237351	100 ug
Recombinant Human Malic enzyme 3 (ME3)	180003	10 ug, 25 ug, 100 ug, 1 mg

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