

Product Name	Recombinant Human Kras (G12A), GST-Tag, GppNHp loaded		
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 loaded with GppNHp, a non-hydrolysable GTP analog. Ready for use in Kras-RAF binding assay or inhibitor screening assay.		
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:

<u>Product Name</u>	<u>Catalog #</u>	<u>Size</u>
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 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

Products are for research use only and are not intended for human use. We do not sell to patients.