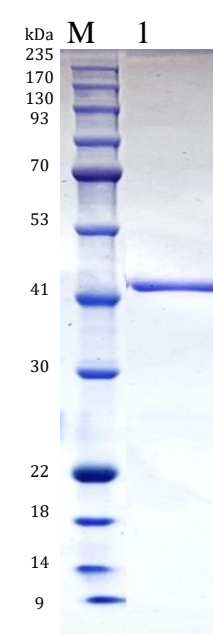
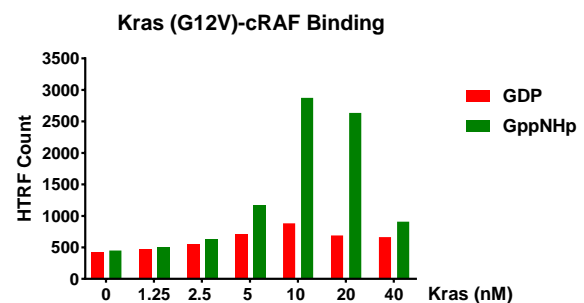
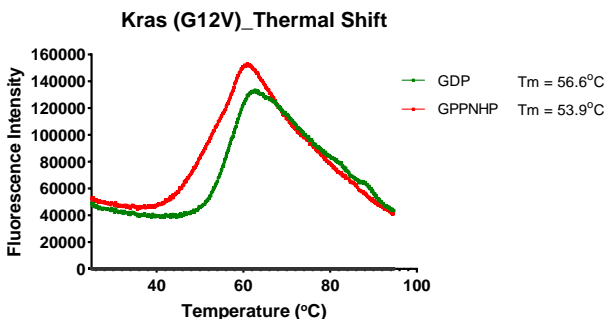


<b>Product Name</b>	Recombinant Human Kras (G12V), GST-Tag, GppNHp loaded	 <p>SDS-PAGE gel</p> <p>kDa M 1</p> <p>235 170 130 93 70 53 41 30 22 18 14 9</p> <p>M – MW Marker 1 – GST Kras G12V</p>
<b>Synonym(s)</b>	KRAS2, RASK2, C-K-RAS, CFC2, KRAS proto-oncogene	
<b>Quantity</b>	100 µg	
<b>GenBank #</b>	NM_004985.5	
<b>UniProt #</b>	P01116, a. a. 2-169	
<b>Mutation</b>	G12V	
<b>Molecular weight</b>	46.05 kDa + GppNHp	
<b>Purity</b>	>95% by SDS-PAGE	
<b>Tag</b>	N-GST Tagged	
<b>Expression Source</b>	E. coli	
<b>Application</b>	Inhibitor Screening, binding assays, enzyme kinetics, and selectivity profiling.	
<b>Formulation</b>	20 mM HEPES, 50 mM NaCl, 10 mM MgCl <sub>2</sub> , 1 mM DTT, 10% glycerol, pH 7.5	
<b>Storage and Stability</b>	Stable for at least 6 months at -80°C. Avoid freeze/thaw cycles	
<b>Description</b>	Kras is a member of the small G protein RAS family, which are a class of GTPases involved in cell signaling transduction. As an oncogene mutated in several different cancers, the G12V substitution mutation favors the activated, GTP-bound state of the protein.	
<b>Reference</b>	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.	



GDP-loaded Kras (G12V) and GppNHp-loaded Kras (G12V) were analyzed with thermal shift assay (left). The TR-FRET binding assay of Kras (G12V) and cRAF was performed at 10 nM cRAF and indicated amount of GDP-loaded Kras and GppNHp-loaded Kras (right).

**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 WT Nucleotide Exchange Assay Kit	5727-4121NK	384 reactions
Kras WT – cRAF Binding Assay Kit	5727-4121BK	384 reactions
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 G12C Nucleotide Exchange Assay Kit	5727-4122NK	384 reactions
Kras G12C – cRAF Binding Assay Kit	5727-4122BK	384 reactions
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 G12D Nucleotide Exchange Assay Kit	5727-4123NK	384 reactions
Kras G12D– cRAF Binding Assay Kit	5727-4123BK	384 reactions
Kras G12R, GST-tag,	5727-4127G	50 µg, 100 µg
Kras G12R, GST-tag, GDP Loaded	5727-4127G -G	50 µg, 100 µg
Kras G12R, GST-tag, GppNHp loaded	5727-4127G -GP	50 µg, 100 µg
Kras G12R Nucleotide Exchange Assay Kit	5727-4127NK	384 reactions
Kras G12R – cRAF Binding Assay Kit	5727-4127BK	384 reactions
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 G12V Nucleotide Exchange Assay Kit	5727-4128NK	384 reactions
Kras G12V – cRAF Binding Assay Kit	5727-4128BK	384 reactions
Kras G12C, His-tag	5727-4122H	50 µg, 100 µg
Human RBD-RAF1, N-His tag, C-FLAG tag	7237231	50 µg, 100 µg
Avi-His -SOS1	7671	50 µg, 100 µg

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