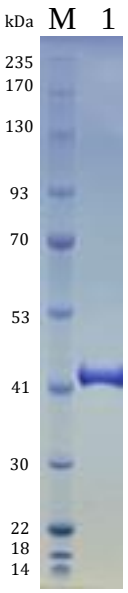
Aurora Biolabs
High Purity Protein for Research

Human Kras (G12D), GST-Tag, GDP Loaded

Catalog Number: 5727-4123G-G

Product Name	Recombinant Human Kras (G12D), GST-Tag, GDP loaded
Synonym(s)	KRAS2, RASK2, C-K-RAS, CFC2, KRAS proto-oncogene
Quantity	100 µg
GenBank #	NM_004985.5
UniProt #	P01116, a. a. 2-169
Mutation	G12D
Molecular weight	46.90 kDa + GDP
Purity	>95% by SDS-PAGE
Tag	N-terminal GST Tagged
Expression Source	E. coli
Application	Inhibitor Screening, binding assays, enzyme kinetics, and selectivity profiling.
Formulation	20 mM HEPES, 50 mM NaCl, 10 mM $MgCl_2$, 1 mM DTT, 10% glycerol, pH 7.5
Storage and Stability	Stable for at least 6 months at -80°C. Avoid freeze/thaw cycles
Description	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 G12D substitution mutation favors the activated, GTP-bound state of the protein.
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.

SDS-PAGE gel



M – MW Marker
1–GST Kras G12D

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 WT Nucleotide Exchange Assay Kit	5727-4121NK	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

Human Kras (G12D), GST-Tag, GDP Loaded

Catalog Number: 5727-4123G-G

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 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 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 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.