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Data Sheet

GppNHp loaded KRAS (G12C), His-Tag

Human, Recombinant, N-terminal His-tag

Catalog #: 100641

Lot #: 200207-T

Conc.: 0.43 mg/ml

Formulated in: 20 mM HEPES, pH 7.4, 150 mM NaCl, and 1 mM DTT.

Stability: At least 6 months at -70°C. Avoid freeze/thaw cycles.

References:

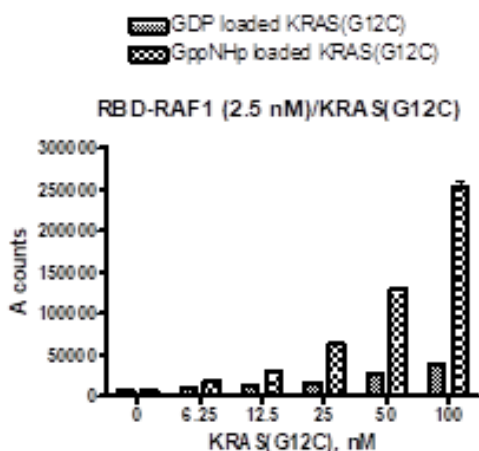
1. Ostrem, J. M., et al., *Nature*. 2013;**503**:548-551.
2. Patricelli, M. P., et al., *Cancer Discovery*. 2016;**6**:316-329.

Description: Human KRAS, also known as C-K-RAS, CFC2, and K-RAS2A, GenBank Accession No. NM_033360, a.a. 2-186 with G12C mutation and N-terminal His-tag, expressed in an *E. coli* expression system. MW=23 kDa. KRAS (G12C) His-Tag (BPS Bioscience #100413), is loaded with GppNHp (non-hydrolyzable GTP analog). Unbound GppNHp was removed by spin column. Ready for use in KRAS-RAF binding studies or inhibitor assays.

Assay Conditions: GppNHp loaded KRAS(G12C) was tested for binding to the RBD of Raf1. GppNHp loaded KRAS(G12C) was compared with GDP-loaded KRAS(G12C) (BPS Bioscience #100640) for RBD-RAF1 (BPS Bioscience #100519) binding by Bio-layer Interferometry (GATOR, Probe Life) and AlphaScreening (PerkinElmer).

Applications: Useful for nucleotide exchange assay, KRAS(G12C) inhibitors screening, and selectivity profiling.

Quality Assurance



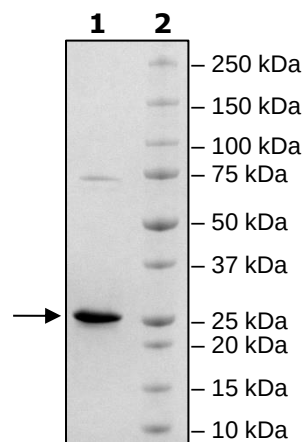
4-20% SDS-PAGE Coomassie staining

Lane 1:
2µg KRAS-GppNHp

Lane 2:
Protein Marker

MW: 23 kDa

Purity: ≥90%



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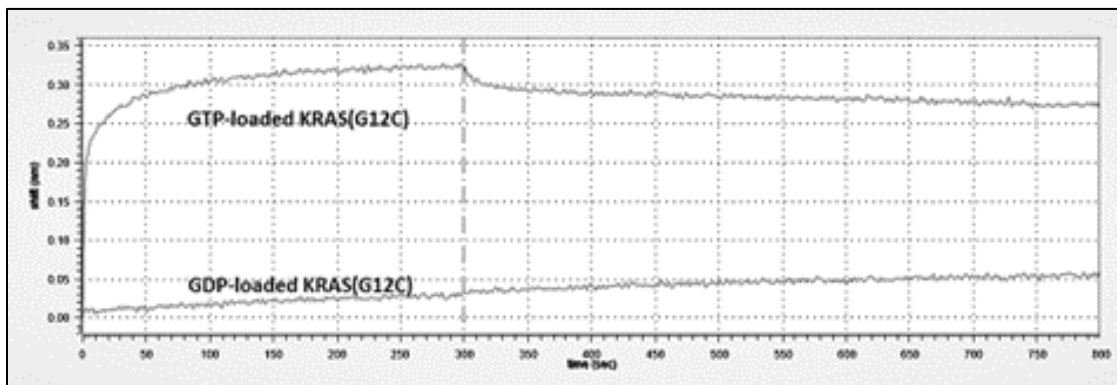
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Bio-layer Interferometry (GATOR)



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