

AR51744PU-S**Human B-Raf proto-oncogene (432-766, His-tag) - Purified****Alternate names:**

B-Raf proto-oncogene serine/threonine-protein kinase, BRAF, BRAF1, RAFB1, p94, v-Raf murine sarcoma viral oncogene homolog B1

Quantity:

0.1 mg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

BRAF belongs to the raf/mil family of serine/threonine protein kinases. This protein plays a role in regulating the MAP kinase/ERKs signaling pathway, which affects cell division, differentiation, and secretion. Mutations in this gene are associated with cardiofaciocutaneous syndrome, a disease characterized by heart defects, mental retardation and a distinctive facial appearance. Mutations in this gene have also been associated with various cancers, including non-Hodgkin lymphoma, colorectal cancer, malignant melanoma, thyroid carcinoma, non-small cell lung carcinoma, and adenocarcinoma of lung. A pseudogene, which is located on chromosome X, has been identified for this gene.

Uniprot ID:

[P15056](#)

NCBI:

[NP_004324](#)

GenelD:

[673](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >80% by SDS - PAGE

Buffer System: Liquid, In 20mM Tris-HCl (pH8.0) containing 10% glycerol.

Description:

Recombinant human BRAF protein, fused to His-tag at N-terminus, was expressed in E.coli.

AA Sequence:

MGSSHHHHHH SGLVPRGSH MGSEFSEDRN RMKTLGRRDS SDDWEIPDGQ ITVGQRIGSG
SFGTVYKQKW HGDVAVKMLN VTAPTQQQLQ AFKNEVGVLK KTRHVNILLF MGYSTKQPQLA
IVTQWCEGSS LYHHLHIET KFEMIKLIDI ARQTAQGM DY LHAKSIIHRD LKSNNIFLHE
DLTVKIGDFG LATVKSRSWG SHQFEQLSGS ILWMAPEVIR MQDKNPYSFQ SDVYAFGIVL
YELMTGQLPY SNINNRDQII FMVGRGYLSP DLSKVRSNCP KAMKRLMAEC LKKKRDERPL
FPQILASIEL LARSLPKIHR SASEPSLNRA GFQTEDFSLY ACASPKTPIQ AGGYGAFPVH

Molecular weight: 40.6 kDa (360aa)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Brennan D.F., et al. (2011) Nature 472:366-369

Pictures:

