

Product datasheet for **AR51744PU-N**

B-Raf proto-oncogene (432-766, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	B-Raf proto-oncogene (432-766, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSEFSEDRN RMKTLGRRDS SDDWEIPDGQ ITVGQRIGSG SFGTVYKGGW HGDVAVKMLN VTAPTPQQLQ AFKNEVGVLK KTRHVNILLF MGYSTKPQLA IVTQWCEGSS LYHHLHIET KFEMIKLIDI ARQTAQGMDY LHAKSIIHRD LKSNNIFLHE DLTVKIGDFG LATVKSRSWSG SHQFEQLSGS ILWMAPEVIR MQDKNPYSFQ SDVYAFGIVL YELMTGQLPY SNINNRDQII FMVGRGYLSP DLSKVRSNCP KAMKRLMAEC LKKKRDERPL FPQILASIEL LARSLPKIHR SASEPSLNRA GFQTEDFS LY ACASPKTPIQ AGGYGAFPVH
Tag:	His-tag
Predicted MW:	40.6 kDa
Concentration:	lot specific
Purity:	>80% by SDS - PAGE
Buffer:	Presentation State: This purified protein is available in a denatured form, making it less suitable for functional studies. Denatured proteins are better suited for applications like Western Blot (WB) or imaging assays. State: Liquid purified protein Buffer System: Liquid, In 20 mM Tris-HCl (pH 8.0) containing 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human BRAF protein, fused to His-tag at N-terminus, was expressed in E.coli.
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.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001341538
Locus ID:	673
Cytogenetics:	7q34
Synonyms:	BRAF, BRAF1, RAFB1, p94



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Summary:

This gene encodes a protein belonging to the RAF family of serine/threonine protein kinases. This protein plays a role in regulating the MAP kinase/ERK signaling pathway, which affects cell division, differentiation, and secretion. Mutations in this gene, most commonly the V600E mutation, are the most frequently identified cancer-causing mutations in melanoma, and have been identified in various other cancers as well, including non-Hodgkin lymphoma, colorectal cancer, thyroid carcinoma, non-small cell lung carcinoma, hairy cell leukemia and adenocarcinoma of lung. Mutations in this gene are also associated with cardiofaciocutaneous, Noonan, and Costello syndromes, which exhibit overlapping phenotypes. A pseudogene of this gene has been identified on the X chromosome. [provided by RefSeq, Aug 2017]

Protein Families:

Druggable Genome, Protein Kinase

Protein Pathways:

Acute myeloid leukemia, Bladder cancer, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Focal adhesion, Glioma, Insulin signaling pathway, Long-term depression, Long-term potentiation, MAPK signaling pathway, Melanoma, mTOR signaling pathway, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, Thyroid cancer, Vascular smooth muscle contraction

Product images: