

BRAF, 432-766aa, Human, His tag, E.coli

Cat.NO.: TP01364

3th Edition

Synonyms: Serine/threonine-protein kinase B-raf, B-RAF1, BRAF1, NS7, RAFB1

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

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

Molecular Weight: 40.6 kDa (360aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSEFSEDRNRMKTLGRRDSSDDWEIPDGQITVGQRIGSGSFGTVYKKGKWHGD
VAVKMLNVTAPTPQQLQAFKNEVGVLKTRHVNILLFMGYSTKPQLAIVTQWCEGSSLYHHLHIIETKFEMIKLIDIAR
QTAQGMDYLHAKSIIHRDLKSNNIFLHEDLTVKIGDFGLATVKSRSWGS HQFEQLSGSILWMAPEVIRMQDKNPYSF
QSDVYAFGIVLYELMTGQLPYSNINNRDQIIFMVGRGYLSPDLSKVRSNCPKAMKRLMAECLKKRDERPLFPQILA
SIELLARSLPKIHRSASEPSLNRAGFQTEDFSLYACASPKTPIQAGGYGAFPVH

Purity: > 95% by HPLC

Concentration: 0.25 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.