

Active Recombinant Human NF1 Protein (1197-1528), N-His tagged

Cat. No. NF1-32H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant human NF1 (1197-1528) was expressed in E. coli cells using an N-terminal His tag.
Species	Human
Source	E.coli
ProteinLength	1197-1528
Description	Neurofibromin acts as a tumor suppressor and plays a critical role in regulating cellular signaling pathways. The NF1 gene product functions as a negative regulator of the RAS signaling pathway, acting as a GTPase-activating protein (GAP) for RAS proteins. Neurofibromin facilitates the conversion of active, GTP-bound RAS to its inactive, GDP-bound form, thereby modulating cell growth and proliferation. Loss in functional neurofibromin results in dysregulated RAS signaling, leading to abnormal cellular growth and proliferation. This contributes to the development of neurofibromas – benign tumors that arise from peripheral nerves. Dysregulation of RAS signaling pathways can impact various other cellular processes.
Molecular Mass	Observed MW: ~38 kDa Calculated MW: ~ 37.9 kDa
Purity	> 85%

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Stability	One year at –70 centigrade from date of shipment.
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.05 µg/µL
Storage Buffer	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.25mM DTT, 25% glycerol.
Shipping	Dry ice

GENE INFORMATION

Gene Name	NF1 neurofibromin 1 [Homo sapiens (human)]
Official Symbol	NF1
Synonyms	NF1; neurofibromin 1; neurofibromin; neurofibromatosis; von Recklinghausen disease; Watson disease; neurofibromatosis-related protein NF-1; WSS; NFNS; VRNF; FLJ21220; DKFZp686J1293;
Gene ID	4763
mRNA Refseq	NM_000267
Protein Refseq	NP_000258
MIM	613113

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UniProt ID P21359**GTPase Activity**

NF1 stimulates GTPase activity by accelerating the hydrolysis of Ras-bound GTP.
GTPase amount: 200 ng/reaction. Reaction time: 60 min.

Purity

The purity of NF1 was determined to be > 85% by densitometry.

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