

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

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

### SPECIFICATION

<b>Product Overview</b>	Active Recombinant human NF1 (1197-1528) was expressed in E. coli cells using an N-terminal His tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1197-1528
<b>Description</b>	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.
<b>Molecular Mass</b>	Observed MW: ~38 kDa Calculated MW: ~ 37.9 kDa
<b>Purity</b>	> 85%

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<b>Stability</b>	One year at –70 centigrade from date of shipment.
<b>Storage</b>	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.
<b>Concentration</b>	0.05 µg/µL
<b>Storage Buffer</b>	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.25mM DTT, 25% glycerol.
<b>Shipping</b>	Dry ice

## GENE INFORMATION

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

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