

Recombinant Full Length Human SPRY2 Protein, C-Flag-tagged

Cat. No. SPRY2-1714HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SPRY2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a protein belonging to the sprouty family. The encoded protein contains a carboxyl-terminal cysteine-rich domain essential for the inhibitory activity on receptor tyrosine kinase signaling proteins and is required for growth factor stimulated translocation of the protein to membrane ruffles. In primary dermal endothelial cells this gene is transiently upregulated in response to fibroblast growth factor two. This protein is indirectly involved in the non-cell autonomous inhibitory effect on fibroblast growth factor two signaling. The protein interacts with Cas-Br-M (murine) ectopic retroviral transforming sequence, and can function as a bimodal regulator of epidermal growth factor receptor/mitogen-activated protein kinase signaling. This protein may play a role in alveoli branching during lung development as shown by a similar mouse protein.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	34.5 kDa
AA Sequence	MEARAQSGNGSQPLLQTPRDGGRQRGEPDPRDALTQQVHVLSLDQIRAIRNTNEY

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TEGPTVVPRPGLKPA PRPSTQHKHERLHGLPEHRQPPRLQHSQVHSSARAPLSRSI
 STVSSGSRSSRTSTSSSSSEQRLGSSF SSGPVADGIIRVQPKSELKPGELKPLSK
 EDLGLHAYRCEDCGKCKCKECTYPRPLPSDWICKQCLCSAQ NVIDYGTCVCCVK
 GLFYHCSNDDDEDNCADNPCSCSQSHCCTRWSAMGVMSLFLPCLWCYLPKAGCLK
 LCQ
 GCYDRVNRPGCRCKNSNTVCCKVPTVPPRNFEKPTTRTRPLEQKLISEEDLAANDIL
 DYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Jak-STAT signaling pathway
Full Length	Full L.

GENE INFORMATION

Gene Name	SPRY2 sprouty RTK signaling antagonist 2 [Homo sapiens (human)]
Official Symbol	SPRY2

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Synonyms	IGAN3; hSPRY2
Gene ID	10253
mRNA Refseq	NM_005842.4
Protein Refseq	NP_005833.1
MIM	602466
UniProt ID	O43597



Coomassie blue staining of purified SPRY2 protein.

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