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Product datasheet for TP723481

WNT1 (NM_005430) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human wingless-type MMTV integration site family, member 1 (WNT1).
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	ANSSGRWWGI VNVASSTNLL TDSKSLQLVL EPSLQLLSRK QRRLIRQNPG ILHSVSGGLQ SAVRECKWQF RNRRWNCPTA PGPHLFGKIV NRGCRETAFI FAITSAGVTH SVARSCSEGS IESCTCDYRR RGPGGPDWHW GGCSDNIDFG RLFGREFVDS GEKGRDLRFL MNLHNNEAGR TTVFSEMRQE CKCHGMSGSC TVRTCWMRLP TLRAVGDVLR DRFDGASRVL YGNRGSNRAS RAELLRLEPE DPAHKPPSPH DLVYFEKSPN FCTYSGRLGT AGTAGRACNS SSPALDGCEL LCCGRGHRTR TQRVTERCNC TFHWCCHVSC RNCTHTRVLH ECL
Tag:	Tag Free
Predicted MW:	38.4 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer,100mM NaCl, pH 7.2
Bioactivity:	ED50 was determined by its ability to enhance BMP-2 induced alkaline phosphatase production by murine ATDC5 cells. The expected ED50 for this effect is 1.5 - 2.5 ng/ml in the presence of 200 ng/ml of human BMP-2.
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_005421
Locus ID:	7471
UniProt ID:	P04628
RefSeq Size:	2284
Cytogenetics:	12q13.12

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RefSeq ORF:	1110
Synonyms:	BMND16; INT1; OI15
Summary:	The WNT gene family consists of structurally related genes which encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene is a member of the WNT gene family. It is very conserved in evolution, and the protein encoded by this gene is known to be 98% identical to the mouse Wnt1 protein at the amino acid level. The studies in mouse indicate that the Wnt1 protein functions in the induction of the mesencephalon and cerebellum. This gene was originally considered as a candidate gene for Joubert syndrome, an autosomal recessive disorder with cerebellar hypoplasia as a leading feature. However, further studies suggested that the gene mutations might not have a significant role in Joubert syndrome. This gene is clustered with another family member, WNT10B, in the chromosome 12q13 region. [provided by RefSeq, Jul 2008]
Protein Families:	Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway, Transmembrane
Protein Pathways:	Basal cell carcinoma, Hedgehog signaling pathway, Melanogenesis, Pathways in cancer, Wnt signaling pathway