

## Product datasheet for **AR09017PU-N**

### Desert hedgehog / DHH (23-198, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Desert hedgehog / DHH (23-198, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> MCGPGRGPVG RRRYARKQLV PLLYKQFVPG VPERTLGASG PAEGRVARGS ERFRLVLPNY NPDIIKDEE NSGADRLMTE RCKERVNALA IAVMNMWPGV RLRVTEGWDE DGHHAQDSLH YEGRALDITT SDRDRNKYGL LARLAVEAGF DWVYYESRNH VHVSVKADNS LAVRAGG
Tag:	His-tag
Predicted MW:	22 kDa
Concentration:	lot specific
Purity:	>95% > 95% by SDS PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM MES pH 5.5 containing 0.5 mM DTT, 20% Glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant DHH protein, fused to His-tag, was expressed in E.coli and purified by using conventional chromatography techniques.
Note:	NCBI Accession No.: NP_066382
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_066382</u>
Locus ID:	50846
UniProt ID:	<u>O43323</u>
Cytogenetics:	12q13.12
Synonyms:	GDMN; GDXYM; HHG-3; SRXY7



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**Summary:**

This gene encodes a member of the hedgehog family. The hedgehog gene family encodes signaling molecules that play an important role in regulating morphogenesis. This protein is predicted to be made as a precursor that is autocatalytically cleaved; the N-terminal portion is soluble and contains the signalling activity while the C-terminal portion is involved in precursor processing. More importantly, the C-terminal product covalently attaches a cholesterol moiety to the N-terminal product, restricting the N-terminal product to the cell surface and preventing it from freely diffusing throughout the organism. Defects in this protein have been associated with partial gonadal dysgenesis (PGD) accompanied by minifascicular polyneuropathy. This protein may be involved in both male gonadal differentiation and perineurial development. [provided by RefSeq, May 2010]

**Protein Families:**

Druggable Genome, ES Cell Differentiation/IPS, Protease

**Protein Pathways:**

Hedgehog signaling pathway

**Product images:**