

## Product datasheet for **AR51045PU-S**

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

#### Product data:

Product Type:	Recombinant Proteins
Description:	Desert hedgehog / DHH (23-198, His-tag) human protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSMIIGPGR GPVGRRRRYAR KQLVPLLYKQ FVPGVPERTL GASGPAEGRV ARGSERFRDL VPNYNPDIIIF KDEENSGADR LMTERCKERV NALAIAMNM WPGVRLRVTE GWDEDGHHAQ DSLHYEGRAL DITTSRDRN KYGLLARLAV EAGFDWVYYE SRNHVHVSVK ADNSLAVRAG G
Tag:	His-tag
Predicted MW:	22.4 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 7.5) containing 0.15M NaCl, 10% glycerol, 1 mM DTT
Preparation:	Liquid purified protein
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<a href="#">NP_066382</a>
Locus ID:	50846
UniProt ID:	<a href="#">O43323</a>
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:**