

Product datasheet for **AR09447PU-N**

Sonic hedgehog (SHH) (25-198, His-tag) Mouse Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Sonic hedgehog (SHH) (25-198, His-tag) mouse recombinant protein, 0.1 mg
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MCGPGRGFGK RRHPKKLTP LAYKQFIPNVA EKT LGASGRY EGKITRNSER FKELTPNYNP DIIFKDEENT GADRLMTQRC KDKLNALAI S VMNQWPGVKL RVTEGWDEDG HHSEESLHYE GRAVDITSD RDRSKYGMLA RLAVEAGFDW VYYESKAHIH CSVKAENSVA AKSGGLEHHH <u>HHH</u>
Tag:	His-tag
Predicted MW:	20.8 kDa
Concentration:	lot specific
Purity:	>95% by SDS – PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT
Preparation:	Liquid purified protein
Protein Description:	Recombinant mouse SHH protein, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_033196
Locus ID:	20423
UniProt ID:	Q62226
Cytogenetics:	5 14.39 cM
Synonyms:	9530036O11Rik; Dsh; Hhg1; Hx; Hxl3; M100081



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Summary:

Sonic hedgehog protein: The C-terminal part of the sonic hedgehog protein precursor displays an autoproteolysis and a cholesterol transferase activity (PubMed:8824192, PubMed:7891723). Both activities result in the cleavage of the full-length protein into two parts (ShhN and ShhC) followed by the covalent attachment of a cholesterol moiety to the C-terminal of the newly generated ShhN (PubMed:8824192). Both activities occur in the reticulum endoplasmic (PubMed:21357747). Once cleaved, ShhC is degraded in the endoplasmic reticulum (PubMed:21357747).[UniProtKB/Swiss-Prot Function]

Product images: