Datasheet for ABIN2115472

Sonic Hedgehog Protein (SHH) (AA 25-198) (His tag)

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Overview

Quantity:	50 µg
Target:	Sonic Hedgehog (SHH)
Protein Characteristics:	AA 25-198
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Sonic Hedgehog protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse Sonic Hedgehog/SHH
Sequence:	MCGPGRGFGK RRHPKKLTPL AYKQFIPNVA EKTLGASGRY EGKITRNSER FKELTPNYNP DIIFKDEENT GADRLMTQRC KDKLNALAIS VMNQWPGVKL RVTEGWDEDG HHSEESLHYE GRAVDITTSD RDRSKYGMLA RLAVEAGFDW VYYESKAHIH CSVKAENSVA AKSGG
Characteristics:	Recombinant E.coil Uracil-DNA glycosylase is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Glu229) of E.coil UNG fused with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	Sonic Hedgehog (SHH)
Alternative Name:	Sonic Hedgehog/SHH (SHH Products)
Background:	Uracil-DNA glycosylase(UNG)belongs to the uracil-DNA glycosylase family. The human gene encodes one of several uracil-DNA glycosylases. One important function of uracil-DNA glycosylases is to prevent mutagenesis by eliminating uracil from DNA molecules by cleaving the N-glycosylic bond and initiating the base-excision repair (BER) pathway. Uracil bases occur from cytosine deamination or misincorporation of dUMP residues. After a mutation occurs, the mutagenic threat of uracil propagates through any subsequent DNA replication steps. Once unzipped, mismatched guanine and uracil pairs are separated, and DNA polymerase inserts complementary bases to form a guanine-cytosine (GC) pair in one daughter strand and an adenine-uracil (AU) pair in the other.Half of all progeny DNA derived from the mutated template inherit a shift from GC to AU at the mutation site.UDG excises uracil in both AU and GU pairs to prevent propagation of the base mismatch to downstream transcription and translation processes. Synonyms: Uracil-DNA glycosylase,UDG,
Molecular Weight:	19.8 kDa
UniProt:	Q62226
Pathways:	Hedgehog Signaling, Dopaminergic Neurogenesis, Regulation of Muscle Cell Differentiation, Tube Formation, Skeletal Muscle Fiber Development

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 1 mM DTT, pH 7.4.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.