

Asporin (ASPEN) Recombinant Protein | ASPN recombinant protein

Recombinant Human Asporin (ASPEN)

CATALOG # AAA18736	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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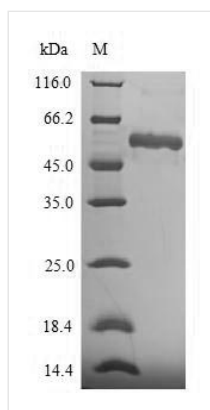
PRODUCT SYNONYMS

Asporin (ASPEN); Recombinant Human Asporin (ASPEN); Asporin; Periodontal ligament-associated protein 1; PLAP-1; ASPN recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	33-380aa; Full Length of Mature Protein
Sequence	DMEDTDDDDDDDDDDDDDDDE DNSLFPTREP RSHFFPFDFL PMCPFGCQCY SRVVHCSDLG LTSVPTNIPF DTRMLDLQNN KIKEIKENDF KGLTSYGLI LNNNKLTKEH PKAFLTTKKL RRLYLHNQL SEIPLNLPKS LAELRIHENK VKKIQTDFK GMNALHVLEM SANPLDNGI EPGAFEGVTV FHIRIAEAKL TSVKGLPPT LLEHLDYNNK ISTVELEDFK RYKELQRLGL GNNKITDIEN GSLANIPRVR EIHLENNKLK KIPSGLPK YLQIIFLHNS SIARVGVNDF CPTVPKMKKS LYSALFNN PVKYWEMQPA TFRVLSRMS VQLGNFGM
Species	Homo sapiens (Human)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for ASPEN recombinant protein	Negatively regulates periodontal ligament (PDL) differentiation and mineralization to ensure that the PDL is not ossified and to maintain homeostasis of the tooth-supporting system. Inhibits BMP2-induced cytodifferentiation of PDL cells by preventing its binding to BMPR1B/BMP type-1B receptor, resulting in inhibition of BMP-dependent activation of SMAD proteins (By similarity). Critical regulator of TGF-beta in articular cartilage and plays an essential role in cartilage homeostasis and osteoarthritis (OA) pathogenesis. Negatively regulates chondrogenesis in the articular cartilage by blocking the TGF-beta/receptor interaction on the cell surface and inhibiting the canonical TGF-beta/Smad signal. Binds calcium and plays a role in osteoblast-driven collagen biomineralization activity.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	301069324
NCBI GeneID	54829
NCBI Accession #	NP_001180264.1
NCBI GenBank Nucleotide #	NM_001193335.1
UniProt Accession #	Q9BXN1; Q5TBF3; Q96K79; Q96LD0; Q9NXP3
Molecular Weight	55.7 kDa
NCBI Official Full Name	asporin isoform 2 preproprotein
NCBI Official Synonym Full Names	asporin
NCBI Official Symbol	ASPN
NCBI Official Synonym Symbols	OS3; PLAP1; PLAP-1; SLRR1C
NCBI Protein Information	asporin; asporin proteoglycan; asporin (LRR class 1); small leucine-rich protein 1C; periodontal ligament associated protein 1
UniProt Protein Name	Asporin
UniProt Gene Name	ASPN
UniProt Synonym Gene Names	PLAP1; SLRR1C; PLAP-1
UniProt Entry Name	ASPN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/aspn-recombinant-protein-e-coli/18736>