


Recombinant Human Asporin(ASPEN)

Catalog Number: CSB-BP002230HU

Product Name:	Recombinant Human Asporin(ASPEN)
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Relevance :	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.
Mol. Weight:	40 kDa
Product Info :	His-tagged
Source:	Baculovirus derived
Image:	
Purity:	>90%(SDS-PAGE)
Storage Buffer:	Tris-based buffer, 50% glycerol
Storage :	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Notes :	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
AA sequence:	DMEDTDDDDDDDDDDDDDEDNSLFPTRPRSHFFPFDLFPMPFG CQCYSRVVHCSDLGLTSVPTNIPFDTRMLDLQNNKIKEIKENDFKGLTS LYGLILNNKLTKIHPKAFLTTKLRRLYLSHNQLSEIPLNLPKSLAELRIH ENKVKKIQKDTFKGMNALHVLEMSANPLDNNGIEPGAFEGVTVFHIRIA EAKLTSVPKGLPPTLLELHLDYNKISTVELEDFKRYKELQRLGLGNNKIT DIENGLANIPRVREIHLENNKLLKIPSGLPELKYLQIIFLHSNSIARVGV NDFCPTVPKMKKSLYSAISLFNNPVKYWEMQPATFRCVLSRMSVQLG NFGM
References:	"Identification and characterization of asporin. A novel member of the leucine-rich repeat protein family closely related to decorin and biglycan."

	Lorenzo P., Aspberg A., Oennerfjord P., Bayliss M.T., Neame P.J., Heinegaard D. J. Biol. Chem. 276:12201-12211(2001)
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