

Recombinant Human KAZALD1 protein, His & T7-tagged

Cat. No. KAZALD1-1872H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KAZALD1 aa. (Arg31~Tyr304 (Accession # Q96I82)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Arg31~Tyr304
Description	This gene encodes a secreted member of the insulin growth factor-binding protein (IGFBP) superfamily. The protein contains an insulin growth factor-binding domain in its N-terminal region, a Kazal-type serine protease inhibitor and follistatin-like domain in its central region, and an immunoglobulin-like domain in its C-terminal region. Studies of the mouse ortholog suggest that this protein may function in bone development and bone regeneration. This gene is hypomethylated and over-expressed in high-grade glioma compared to low-grade glioma, and thus the hypomethylated gene may be associated with cell proliferation and the shorter survival of patients with high-grade glioma. It is also one of numerous genes found to be deleted in a novel 5.54 Mb interstitial deletion, which is associated with multiple congenital anomalies. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	37kDa as determined by SDS-PAGE reducing conditions.

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Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>90%
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	4.6

GENE INFORMATION

Gene Name	KAZALD1 Kazal type serine peptidase inhibitor domain 1 [Homo sapiens (human)]
Official Symbol	KAZALD1
Synonyms	KAZALD1; Kazal type serine peptidase inhibitor domain 1; BONO1; FKSG28; FKSG40; IGFBP-rP10; kazal-type serine protease inhibitor domain-containing protein 1; IGFBP-related protein 10; bone- and odontoblast-expressed gene 1; novel kazal-type serine protease inhibitor domain and immunoglobulin domain containing protein

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Gene ID	81621
mRNA Refseq	NM_001319303.1
Protein Refseq	NP_001306232.1
UniProt ID	Q96I82

SDS-PAGE

