

IGSF1 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702334
Synonyms:	Immunoglobulin superfamily member 1; Immunoglobulin-like domain-containing protein 1; Inhibin-binding protein; InhBP; Pituitary gland-specific factor 2; p120
Species:	Human
Source:	E. coli Cell-free
Accession:	Q8N6C5 (M1-I1336)
Gene ID:	3547
Molecular Weight:	151.8 kDa

PROPERTIES

AA Sequence

MTLDRPGEGA	TMLKTFTVLL	FCIRMSLGMT	SIVMDPQPEL
WIESNYPQAP	WENITLWCRS	PSRISSKFL	LKDKTQMTWI
RPSHKTFQVS	FLIGALTESN	AGLYRCCYWK	ETGWSKPSKV
LELEAPGQLP	KPIFWIQAET	PALPGCNVNI	LCHGWLQDLV
FMLFKEGYAE	PVDYQVPTGT	MAIFSIDNLT	PEDEGVYICR
THIQMLPTLW	SEPSNPLKLV	VAGLYPKPTL	TAHPGPIMAP
GESLNLRCQG	PIYGMTFALM	RVEDLEKSFY	HKKTIKNEAN
FFFQSLKIQD	TGHYLCFYD	ASYRGSLLSD	VLKIWVTDTF
PKTWLLARPS	AVVQMGQNV	LRCRGPVDGV	GLALYKKGED
KPLQFLDATS	IDDNTSFFLN	NVTYSDTGIY	SCHYLLTWKT
SIRMPSHNTV	ELMVVDKPPK	PSLSAWPSTV	FKLGKAITLQ
CRVSHPVLEF	SLEWEERETF	QKFSVNGDFI	ISNVDGKGTG
TYSCSYRVET	HPNIWHRSE	PLKLMGPAGY	LTWNYVLNEA
IRLSLIMQLV	ALLLVVLWIR	WKCRRLRIRE	AWLLGTAQGV
TMLFIVTALL	CCGLCNGVLI	EETEIVMPTP	KPELWAETNF
PLAPWKNLTL	WCRSPSGSTK	EFVLLKDGTG	WIATRPASEQ
VRAAFPLGAL	TQSHTGSYHC	HSWEEMAVSE	PSEALELVGT
DILPKPVISA	SPTIRGQELQ	LRCKGWLAGM	GFALYKEGEQ
EPVQQLGAVG	REAFFTIQRM	EDKDEGNYS	RTHTEKRPFK
WSEPSEPLEL	VIKEMYPKPF	FKTWASPVVT	PGARVTFNCS
TPHQHMSFIL	YKDGSEIASS	DRSWASPGAS	AAHFLIISVG
IGDGGNYSCR	YYDFS IWSEP	SDPVELLVTE	FYPKPTLLAQ
PGPVVFPGKS	VILRCQGTFF	GMRFALLQEG	AHVPLQFRSV
SGNSADFLHL	TVGAEDSGNY	SCIYYETTMS	NRGSYLSMPL
MIWVTDTFPK	PWLFAEPSSV	VPMGQNVTLW	CRGPVHGVGY
ILHKEGEATS	MLWGSTSND	GAFPITNISG	TSMGRYSCCY
HPDWTSSIKI	QPSNTLELLV	TGLLPKPSLL	AQPGPMVAPG
ENMTLQCQGE	LPDSTFVLLK	EGAQEPLEQQ	RPSGYRADFW
MPAVRGEDSG	IYSCVYYLDS	TPFAASNHSD	SLEIWVTDKP
PKPSLSAWPS	TMFKLGKIDIT	LQCRGPLPGV	EFVLEHDGEE
APQQFSEGDG	FVINNVEGKG	IGNYSCSYRL	QAYPDIWSEP

S D P L E L V G A A G P V A Q E C T V G N I V R S S L I V V V V V A L G V V L A
I E W K K W P R L R T R G S E T D G R D Q T I A L E E C N Q E G E P G T P A N S
P S S T S Q R I S V E L P V P I

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

IGSF1 protein serves as a coreceptor in inhibin signaling, although it does not appear to function as a high-affinity inhibin receptor. It plays a crucial role in antagonizing activin A signaling, whether inhibin B is present or not. The protein is essential for mediating a specific antagonistic effect of inhibin B on activin-stimulated transcription, and it interacts with INHA. While a standard receptor binding assay indicated no interaction with INHA in one study, IGSF1 is known to interact with ACVR1B, and this interaction seems to be ligand-dependent, being diminished by inhibin B and activin A. Furthermore, IGSF1 interacts with ACVR2A, ACVR2B, ACVRL1, BMPR1B, and HECTD1, revealing its involvement in a complex network of protein interactions critical for modulating inhibin and activin signaling pathways.

Caution: Product has not been fully validated for medical applications. For research use only.

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