

Product Data Sheet

IGFBP-1 Protein, Canine (HEK293, His)

Cat. No.:	HY-P74849
Synonyms:	Insulin-like growth factor-binding protein 1; PP12; IBP-1;
Species:	Canine
Source:	HEK293
Accession:	XP_005629556.1 (T26-S249)
Gene ID:	480812
Molecular Weight:	Approximately 27 kDa

PROPERTIES	
AA Sequence	TPQPWHCAPCTPEKLALCPPVPASCAETALPAGCGCCPMCALPQDAPCGVATARCATGLSCRAAPGEERPLHALIRGRGVCVPTDPAADAKESSESSEITQEQLLENFHLMVPSEEDTPILWNAVRNYKTVRSDDSDKLKEPCRRELHEVLARLAEEQASRQLYSFYLPNCNKNGFYHSRQCKTAMDGQRGLCWCVYPWNGERIPGSVEVRGDPNCGQYFTGHS
Biological Activity	Measured by its ability to inhibit the biological activity of IGF-I on MCF 7 human breast cancer cells. The ED ₅₀ this effect is 0.5299 μg/mL, corresponding to a specific activity is 1.887×10 ³ U/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	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 a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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 Insulin-li

Insulin-like growth factor-binding protein 1 (IBP-1), also known as placental protein 12 (PP12), It's a protein encoded by the IGFBP1 gene. Igfbp-1 is a member of the insulin-like growth factor binding protein (IGFBP) family that binds insulin-like growth factor (IGFs) I and II and circulates in plasma. The binding of the IGFBP-1 protein prolongs the half-life of IGFs and

alters their interaction with cell surface receptors. IGFBP-1 can promote cell migration and has the same binding affinity for IGF1 and IGF2. IGFBP-1 inhibits proliferation, invasion, migration and apoptosis of HTR-8/SVneo cells by inducing MMP-26 expression. IGFBP1 may be a new prognostic factor and a target of molecular targeted therapy for gastric cancer^{[1][2][3]}.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA