antibodies .- online.com





Datasheet for ABIN7455649

GDF5 Protein



\sim					
()	VE	۲۱	/1	\triangle	Λ

Overview			
Quantity:	50 μg		
Target:	GDF5		
Origin:	Human		
Source:	Escherichia coli (E. coli)		
Protein Type:	Recombinant		
Product Details			
Purpose:	Recombinant Human Growth/Differentiation Factor 5 is produced by our E.coli expression		
	system and the target gene encoding Ala382-Arg501 is expressed.		
Characteristics:	Extracellular Domain Protein		
Purity:	Greater than 95 % as determined by reducing SDS-PAGE.		
Target Details			
Target:	GDF5		
Alternative Name:	GDF-5 (GDF5 Products)		
Background:	Growth/differentiation factor 5, GDF-5, Bone morphogenetic protein 14, BMP-14, Cartilage-		
	derived morphogenetic protein 1, CDMP-1, Lipopolysaccharide-associated protein 4, LAP-4,		
	LPS-associated protein 4, Radotermin, CDMP1Growth Differentiation Factor 5(GDF-5, BMP-14)		
	is a member of the BMP family of TGF β superfamily proteins. Human GDF-5, -6, and -7 are a		
	defined subgroup of the BMP family. GDF-5 is synthesized as a homodimeric precursor protein		
	consisting of a 354 amino acid (aa) Nterminal proregion and a 120 aa C-terminal mature		
	peptide. Mature human GDF-5 shares 99 % aa sequence identity with both mature mouse and		

Target Details

rat GDF-5. GDF-5 signaling is mediated by formation of a heterodimeric complex consisting of a type 1 (BMPR-IB) and a type II (BMPR-IIor Activin RII) serine/threonine kinase receptor which results in the phosphorylation and activation of cytosolic Smad proteins (Smad1, 5, and 8). GDF-5 is involved in multiple developmental processes including limb generation, cartilage development, joint formation, bone morphogenesis, cell survival, and neuritogenesis. Inhibition of GDF-5 expression or alteration of its signaling can facilitate the development of osteoarthritis.

Molecular Weight:

13.7 KDa

UniProt:

P43026

Application Details

Restrictions:

For Research Use only

Handling

Format:	Lyophilized	
Buffer:	a 0.2 µm filtered solution of 4 mM HCl.	
Storage:	-20 °C	
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.	
Expiry Date:	12 months	