

Product Data Sheet

FZD3 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702283	
Synonyms:	Frizzled-3; Fz-3; hFz3	
Species:	Human	
Source:	E. coli Cell-free	
Accession:	Q9NPG1 (H23-A666)	
Gene ID:	7976	
Molecular Weight:	75.3 kDa	

PROPERTIES

AA Sequence						
, a coquence	HSLFSCEPIT	LRMCQDLPYN	TTFMPNLLNH	YDQQTAALAM		
	EPFHPMVNLD	CSRDFRPFLC	ΑLΥΑΡΙСΜΕΥ	GRVTLPCRRL		
	CQRAYSECSK	LMEMFGVPWP	EDMECSRFPD	CDEPYPRLVD		
	LNLAGEPTEG	APVAVQRDYG	FWCPRELKID	PDLGYSFLHV		
	RDCSPPCPNM	YFRREELSFA	RYFIGLISII	CLSATLFTFL		
	TFLIDVTRFR	YPERPIIFYA	VCYMMVSLIF	FIGFLLEDRV		
	ACNASIPAQY	K A S T V T Q G S H	NKACTMLFMI	LYFFTMAGSV		
	WWVILTITWF	LAAVPKWGSE	AIEKKALLFH	ASAWGIPGTL		
	TIILLAMNKI	EGDNISGVCF	VGLYDVDALR	YFVLAPLCLY		
	VVVGVSLLLA	GIISLNRVRI	EIPLEKENQD	KLVKFMIRIG		
	VFSILYLVPL	LVVIGCYFYE	QAYRGIWETT	WIQERCREYH		
	ΙΡϹΡΥQVTQΜ	SRPDLILFLM	KYLMALIVGI	P S V F W V G S K K		
	TCFEWASFFH	GRRKKEIVNE	SRQVLQEPDF	AQSLLRDPNT		
	PIIRKSRGTS	Т Q G T S T H A S S	TQLAMVDDQR	SKAGSIHSKV		
	SSYHGSLHRS	RDGRYTPCSY	RGMEERLPHG	SMSRLTDHSR		
	H S S S H R L N E Q	SRHSSIRDLS	N N P M T H I T H G	TSMNRVIEED		
	GTSA					
Appearance	Lyophilized powder.					
Fernendetien						
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, 0.05% Brij-78, 6% Trehalose, pH 7.4.					
Endatovin Loval						
Endotoxin Level	<1 EU/µg, determined by LAL method.					
Pacancititution						
Reconstitution	recommended to add 5-50	ommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers				
	recommended to add 5-50% of glycerol (mail concentration). Our default mail concentration of glycerol is 50%. Custom					
	could use it as reference.					
Storage & Stability	Stard at 20°C for 2 years After reconstitution it is stable at 4°C for 1 years or 20°C for langer (with service protein). It is					
Storage & Stability	recommended to freeze alignots at -20°C or -80°C for extended storage					
	recommended to freeze all	140015 at -20 C 01 -80 C for e.	ktended storage.			

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

FZD3, serving as a receptor for Wnt proteins, primarily engages in the beta-catenin canonical signaling pathway, orchestrating the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin, and induction of Wnt target genes. A secondary signaling pathway involving PKC and calcium fluxes, observed in certain family members, raises questions about its distinct nature and potential integration with the canonical pathway, given the crucial role of PKC in Wnt-mediated GSK-3 kinase inactivation. Interactions with G-proteins are integral to both pathways. Wnt5A activation stimulates PKC activity through a G-protein-dependent mechanism. FZD3 is implicated in transducing polarity information during tissue morphogenesis and differentiated tissues, playing a critical role in controlling early axon growth and guidance processes. It is essential for the development of major fiber tracts in the central nervous system and regulates axon growth in specific populations of cranial and spinal motor neurons. Additionally, FZD3 is involved in the migration of cranial neural crest cells and contributes to the transmission of sensory information. It collaborates with FZD6 in neural tube closure and participates in establishing planar cell polarity, particularly in orienting stereocilia bundles in auditory and vestibular sensory cells. Furthermore, FZD3 promotes neurogenesis by maintaining sympathetic neuroblasts within the cell cycle through a beta-catenin-dependent mechanism. Interactions with VANGL2 further underscore its multifaceted role in cellular processes.

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

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