

FPRP/PTGFRN Protein, Human (HEK293, His)

Cat. No.:	HY-P77889
Synonyms:	Prostaglandin F2 receptor negative regulator; CD9 partner 1; CD9P-1; Glu-Trp-Ile EWI motif-containing protein F; EWI-F; Prostaglandin F2-alpha receptor regulatory protein; Prostaglandin F2-alpha receptor-associated protein; CD_antigen: CD315; CD315
Species:	Human
Source:	HEK293
Accession:	Q9P2B2 (V26-P832)
Gene ID:	5738
Molecular Weight:	100-110 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

FPRP/PTGFRN protein plays a pivotal role in the regulation of prostaglandin F2-alpha (PGF2-alpha) signaling by inhibiting the binding of PGF2-alpha to its specific FP receptor. Notably, this inhibition occurs through a reduction in receptor number rather than an alteration in the affinity constant, indicating a nuanced mechanism of action. Functionally coupled with the PGF2-alpha receptor, FPRP/PTGFRN is implicated in myoblasts where it associates with tetraspanins CD9 and CD81, effectively preventing myotube fusion during muscle regeneration. The protein forms complexes with CD9, CD81, and IGSF8, emphasizing its involvement in intricate cellular interactions. Furthermore, interactions with additional tetraspanins such as CD63, CD82, and CD151 underscore the multifaceted nature of FPRP/PTGFRN in modulating cellular processes.

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

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