Recombinant Human PCBD1 Protein (His Tag)

Catalog Number: PKSH032981



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description			
Synonyms	Pterin-4-Alpha-Carbinolamine Dehydratase;PHS;4-Alpha-Hydroxy- Tetrahydropterin Dehydratase;Dimerization Cofactor of Hepatocyte Nuclear Factor 1-Alpha;DCoH;Dimerization Cofactor of HNF1;Phenylalanine Hydroxylase- Stimulating Protein;Pterin Carbinolamine Dehydratase;PCD;PCBD1;DCOH;PCBD		
Species	Human		
Expression Host	E.coli		
Sequence	Ala2-Thr104		
Accession	P61457		
Calculated Molecular Weight	14.2 kDa		
Observed molecular weight	14 kDa		
Tag	N-His		
Properties			
Purity	> 95 % as determined by reducing SDS-PAGE.		
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.		
Storage	Store at $< -20^{\circ}$ C, stable for 6 months. Please minimize freeze-thaw cycles.		
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at $< -20^{\circ}$ C.		
Formulation	Supplied as a 0.2 μ m filtered solution of 20mM Tris-HCl, 150mM NaCl, 1mM DTT, pH 8.0.		
Reconstitution	Not Applicable		
Data			

KDa	MK	R	
120 90			
60			
40			
30	Nicol.		
20			
14	hear	-	

> 95 % as determined by reducing SDS-PAGE.

Background

Pterin-4- α -Carbinolamine Dehydratase (PCBD1) is the founding member of the Pterin-4- α -Carbinolamine Dehydratase Family. PCBD1 is involved in Tetrahydrobiopterin biosynthesis. It seems to prevent the formation of 7-Pterins and accelerate the formation of Quinonoid-BH2. Furthermore, PCBD1 regulates the homodimerization of the transcription factor Hepatocyte Nuclear Factor 1 (HNF1) and enhances its transcriptional activity. Defects in PCBD1 are the cause of BH4-Deficient Hyperphenylalaninemia Type D (HPABH4D). HPABH4D is characterized by the excretion of 7-substituted Pterins in the urine of affected patients.

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