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Datasheet for ABIN7317463

TGM3 Protein (His tag)



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Overview		
Quantity:	100 μg	
Target:	TGM3	
Origin:	Human	
Source:	Baculovirus infected Insect Cells	
Protein Type:	Recombinant	
Biological Activity:	Active	
Purification tag / Conjugate:	This TGM3 protein is labelled with His tag.	
Product Details		
Purpose:	Recombinant Human TGM3/Transglutaminase 3 Protein (His Tag)(Active)	

Purpose:	Recombinant Human TGM3/Transglutaminase 3 Protein (His Tag)(Active)
Sequence:	Ala 2-Glu 693
Characteristics:	A DNA sequence encoding the human TGM3 (Q08188) (Ala 2-Glu 693) was expressed, with a polyhistidine tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave a synthetic peptide Benzyloxycarbonyl-Gln-Gly and NH2OH. The specific activity is > 450 pmoles/min/µg.

Target Details

Target Details

Alternative Name:	TGM3/Transglutaminase 3 (TGM3 Products)	
Background:	Background: Transglutaminases (TGase) are a family of calcium-dependent acyl-transfer	
	enzymes ubiquitously expressed in mammalian cells and responsible for catalyzing covalent	
	cross-links between proteins or peptides. Transglutaminase 3 (TGM3) is a member of a family	
	of Ca2+-dependent enzymes that catalyze covalent cross-linking reactions between proteins o	
	peptides. TGM3 isoform is widely expressed and is important for epithelial barrier formation. It	
	is a zymogen, requiring proteolysis for activity. Calcium-activated TGM3 can bind, hydrolyze,	
	and is inhibited by GTP, despite lacking structural homology with other GTP binding proteins.	
	TGM3 displays a diffuse cytoplasmic distribution in vitro consistent with its proposed role in the	
	early phase of cornified cell envelope assembly in the cytoplasm. TGM3-driven specific	
	isopeptide bonds between intermediate filaments and KAPs participate to the progressive	
	scaffolding of the hair shaft. Additionally, TGM3 may be a novel prognostic biomarker for	
	esophageal squamous cell carcinoma (ESCC).	
	Synonym: TGE	
Molecular Weight:	78.8 kDa	
UniProt:	Q08188	
Application Details		
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Please refer to the printed manual for detailed information.	
Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 8.5, 10 % gly	
Storage:	4 °C,-20 °C,-80 °C	
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.	
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted	
	samples are stable at < -20°C for 3 months.	