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Product Datasheet

Human UGCG protein, His tag, Unconjugated GTX00280-PRO

Article Name	Human UGCG protein, His tag, Unconjugated
Biozol Catalog Number	GTX00280-PRO
Supplier Catalog Number	GTX00280-pro
Alternative Catalog Number	GTX00280-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human, Mouse, Rat
Conjugation	Unconjugated
NCBI	7357
UniProt	Q16739
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Lys39~Leu171 (NP_003349.1)

Application Notes	UDP Glucose Ceramide Glucosyltransferase (UGCG) is an enzyme which catalyzes the first glycosylation step in glycosphingolipid biosynthesis. It belongs to the glucosyltransferase 2 family. UGCG is widely expressed and transcription is upregulated during keratinocyte differentiation. Besides, Large Multifunctional Peptidase 2 (LMP2) has been identified as an interactor of UGCG, thus a binding ELISA assay was conducted to detect the interaction of recombinant human UGCG and recombinant human LMP2. Briefly, UGCG were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to LMP2-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-UGCG pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of UGCG and LMP2 was in a dose dependent manner.
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