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Datasheet for ABIN6700535 **SIRT5 Protein (GST tag)**

Overview

Quantity:	20 µg
Target:	SIRT5
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SIRT5 protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	SIRT5 recombinant protein-GST fusion protein
Purification:	Full-length recombinant human SIRT5 was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >95% by densitometry.
Purity:	>95%

Target Details

Target:	SIRT5
Alternative Name:	SIRT5 (SIRT5 Products)
Background:	Synonyms: SIR2L5, Sirtuin 5, NAD-dependent protein deacylase sirtuin-5, mitochondrial, Regulatory protein SIR2 homolog 5, SIR2-like protein 5, SIRT5, SIR2L5 Background: SIRT5 is a member of the sirtuin family of proteins which are homologs to the

Target Details

yeast Sir2 protein. Sirtuin family contain a sirtuin core domain and are grouped into four classes with SIRT5 being a member of class III. SIRT5 consists of eight exons and is found in two isoforms which encode a 310 aa and a 299 aa protein, respectively. Human SIRT5 is most predominantly expressed in heart muscle cells and in lymphoblasts. Fluorescence in situ hybridization analysis localized the human SIRT5 gene to chromosome 6p23. SIRT5 can deacetylate cytochrome c, a protein of the mitochondrial intermembrane space with a central function in oxidative metabolism as well as apoptosis initiation (1). SIRT5 Protein is ideal for investigators involved in Signaling Proteins, Deacetylase/Demethylase Proteins, Cancer, Cell Cycle, and Inflammation research.

NCBI Accession: [NM_012241](#)

Pathways: [SARS-CoV-2 Protein Interactome](#)

Application Details

Application Notes: Western_Blot_Dilution: User Optimized
Application_Note: SIRT5 Protein is suitable for use in Western Blot. Expect a band approximately ~60 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.2 µg/µL

Buffer: SIRT5 Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

Storage: -80 °C

Storage Comment: Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Expiry Date: 12 months