重组人OGA蛋白

Recombinant OGA protein (His tag)

目录号 Catalog Number	537256
同用名 Synonyms	OGA; Beta-N-acetylglucosaminidase; Beta-N-acetylhexosaminidase; Beta-hexosaminidase; Meningioma-expressed antigen 5; N-acetyl-beta-D-glucosaminidase; N-acetyl-beta-glucosaminidase; Nuclear cytoplasmic O-GlcNAcase and acetyltransferase; NCOAT
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	O60502
分子量 Molecular Weight	Predictes a molecular mass of 33.93 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 35 kDa band.

产品信息

氨基酸序列 Amino Acid Sequence	MNHKVHHHHH HGGSFLCGVV EGFYGRPWVM EQRKELFRRL QKWELNTYLY APKDDYKHRM FWREMYSVEE AEQLMTLISA AREYEIEFIY AISPGLDITF SNPKEVSTLK RKLDQVSQFG CRSFALLFDD IDHNMCAADK EVFSSFAHAQ VSITNEIYQY LGEPETFLFC PTEYCGTFCY PNVSQSPYLR TVGEKLLPGI EVLWTGPKVV SKEIPVESIE EVSKIIKRAP VIWDNIHAND YDQKRLFLGP YKGRSTELIP RLKGVLTNPN CEFEANYVAI HTLATWYKSN M
性状 Form	冻干粉末 Lyophilized powder
组分 Formulation	Lyophilized from sterile PBS, pH 7.4
纯度 Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
内毒素 Endotoxin	Not tested.
活性 Activity	Not tested.
稳定性 Stability	Samples are stable for up to twelve months from date of receipt at -70℃
蛋白构建 Protein Construction	DNA encoding 60-336 aa (O60502) were fused with N-terminal 6His tag.

保存与运输

复溶 Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
储存 Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
运输 Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

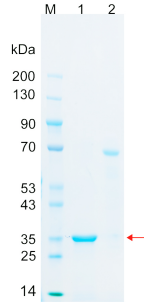
功能描述

研究背景 Background

Recombinant Human Protein O-GlcNAcase (OGA) Fragment (60-336) is a high-purity, enzymatically active protein designed for studying O-GlcNAc hydrolysis. This fragment encompasses the full GH84 domain, offering researchers a precise tool to investigate O-GlcNAcase function, substrate specificity, and regulatory mechanisms in cellular signaling pathways.
Protein O-GlcNAcase (OGA) is a key enzyme in human cells that selectively cleaves O-linked N-acetylglucosamine (GlcNAc) modifications from serine and threonine residues of proteins. It plays a crucial role in regulating diverse cellular processes by deglycosylating numerous substrates, including CRYAB, ELK1, GSDMD, LMNB1, and TAB1, thereby influencing protein stability, activity, and localization. Isoform 1, the primary cytoplasmic form, exhibits strict substrate specificity for beta-GlcNAc and does not possess acetyltransferase activity. O-GlcNAcylation is a dynamic post-translational modification involved in nutrient sensing, stress response, and gene

验证数据

SDS-PAGE



Recombinant OGA protein (His tag) SDS-PAGE
M: Marker; Lane 1: OGA; Lane 2: BSA