

Recombinant Human GJB1 Protein, His&GST-tagged

Cat. No. GJB1-1579H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GJB1 Protein (Met1-Thr130) with N-His&GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Thr130
Description	This gene encodes a member of the gap junction protein family. The gap junction proteins are membrane-spanning proteins that assemble to form gap junction channels that facilitate the transfer of ions and small molecules between cells. According to sequence similarities at the nucleotide and amino acid levels, the gap junction proteins are divided into two categories, alpha and beta. Mutations in this gene cause X-linked Charcot-Marie-Tooth disease, an inherited peripheral neuropathy. Alternatively spliced transcript variants encoding the same protein have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 44.7 kDa Accurate Molecular Mass: 44 kDa
Purity	> 97%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	GJB1 gap junction protein, beta 1, 32kDa [Homo sapiens (human)]
Official Symbol	GJB1
Synonyms	GJB1; gap junction protein, beta 1, 32kDa; CMTX, CMTX1, gap junction protein, beta 1, 32kD (connexin 32, Charcot Marie Tooth neuropathy, X linked), gap junction protein, beta 1, 32kDa (connexin 32), gap junction protein, beta 1, 32kDa (connexin 32, Charcot Marie Tooth neuropathy, X linked); gap junction beta-1 protein; Charcot Marie Tooth neuropathy; X linked; connexin 32; CX32; connexin-32; GAP junction 28 kDa liver protein; CMTX; CMTX1;
Gene ID	2705

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mRNA Refseq	NM_000166
Protein Refseq	NP_000157
MIM	304040
UniProt ID	P08034

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