

Recombinant Human Full Length GJB2

Cat. No. GJB2-11453H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GJB2 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-226 a.a.
Description	This gene encodes a member of the gap junction protein family. The gap junctions were first characterized by electron microscopy as regionally specialized structures on plasma membranes of contacting adherent cells. These structures were shown to consist of cell-to-cell channels that facilitate the transfer of ions and small molecules between cells. The gap junction proteins, also known as connexins, purified from fractions of enriched gap junctions from different tissues differ. 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 are responsible for as much as 50% of pre-lingual, recessive deafness.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol

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GENE INFORMATION

Gene Name	GJB2 gap junction protein, beta 2, 26kDa [Homo sapiens]
Official Symbol	GJB2
Synonyms	GJB2; gap junction protein, beta 2, 26kDa; DFNA3, DFNB1, gap junction protein, beta 2, 26kD (connexin 26) , gap junction protein, beta 2, 26kDa (connexin 26); gap junction beta-2 protein; connexin 26; CX26; NSRD1; HID; KID; PPK; DFNA3; DFNB1; DFNA3A; DFNB1A;
Gene ID	2706
mRNA Refseq	NM_004004
Protein Refseq	NP_003995
MIM	121011
UniProt ID	P29033
Chromosome Location	13q11-q12
Pathway	Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Gap junction assembly, organism-specific biosystem; Gap junction trafficking, organism-specific biosystem; Gap junction trafficking and regulation, organism-specific biosystem; Membrane Trafficking, organism-specific biosystem; Oligomerization of connexins into connexons, organism-specific biosystem; Transport of connexins along the secretory pathway, organism-specific biosystem;

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Function

gap junction channel activity;

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