

Recombinant Human GJA1 protein, His-tagged

Cat. No. GJA1-350H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GJA1 protein(NP_000156.1)(Ser244~Ile382), fused to His-tag at N-terminus, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ser244~Ile382
Description	This gene is a member of the connexin gene family. The encoded protein is a component of gap junctions, which are composed of arrays of intercellular channels that provide a route for the diffusion of low molecular weight materials from cell to cell. The encoded protein is the major protein of gap junctions in the heart that are thought to have a crucial role in the synchronized contraction of the heart and in embryonic development. A related intronless pseudogene has been mapped to chromosome 5. Mutations in this gene have been associated with oculodentodigital dysplasia, autosomal recessive craniometaphyseal dysplasia and heart malformations.
Form	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Molecular Mass	26kDa as determined by SDS-PAGE reducing conditions.
AA Sequence	SDPYHATSGALSPAKDCGSQKYAYFNGCSSPTAPLSPMSPPGYKLVTGDRNNSSC RNYNKQASEQNWANYSAEQNRMGQAGSTISNSHAQPFDFPDDNQNSKKLAAGHE

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	LQPLAIVDQRPSSRASSRASSRPRPDDLEI
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 80%
Notes	The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.
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°C 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°C for one month. Aliquot and store at -80°C for 12 months.
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	GJA1 gap junction protein alpha 1 [Homo sapiens (human)]
Official Symbol	GJA1
Synonyms	HSS; CMDR; CX43; EKVP; GJAL; ODDD; AVSD3; EKVP3; HLHS1; PPKCA
Gene ID	2697

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mRNA Refseq	NM_000165.5
Protein Refseq	NP_000156.1
MIM	121014
UniProt ID	P17302

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