

GJD2 Protein, Bovine (Cell-Free, His, SUMO)

Cat. No.:	HY-P702287
Synonyms:	Gap junction delta-2 protein; Connexin-36; Cx36; Gap junction alpha-9 protein
Species:	Bovine
Source:	E. coli Cell-free
Accession:	Q866T7 (M1-V321)
Gene ID:	282577
Molecular Weight:	49.1 kDa

PROPERTIES

AA Sequence

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MGEWTILERL    LEAAVQQHST    MIGRILLTVV    VIFRILIVAI
VGETVYDDEQ    TMFVCNTLQP    GCNQACYDRA    FPISHIRYWV
FQIIMVCTPS    LCFITYSVHQ    SAKQRERRYS    TVFLALDRDP
PESMGPGPGT    GGGGSGGGKR    EDKKLQNAIV    NGVLQNTENT
SKETEPDCLE    VKELTPHPSG    LRTASRSKLR    RQEGISR FYI
IQVVF RNALE    IGFLVGQYFL    YGFSVPGLYE    CDRYPCIKEV
ECYVSRPTEK    TVFLVFMFAV    SGICVVLNLA    ELNHLGWRKI
KLAVRGAQAK    RKSVEEIRNK    DLPRVSVPNF    GRTQSSDSAY
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Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

GJD2 Protein, as a connexin, contributes to the formation of gap junctions, which comprise closely packed pairs of transmembrane channels known as connexons. These connexons facilitate the diffusion of low molecular weight materials

from one cell to an adjacent cell, enabling direct intercellular communication. Each connexon is constructed as a hexamer of connexins, and these intricate structures play a crucial role in the exchange of essential substances between neighboring cells within the cluster of gap junctions.

Caution: Product has not been fully validated for medical applications. For research use only.

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