

PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



RyR2 (N2802) Peptide

Cat No.: BS1783P

Background

Dihydropyridine receptor (DHPR) is a surface membrane protein critical for the excitation-contraction coupling of striated muscle. DHPR and the sarcoplasmic reticulum ryanodine receptor (RyR) are two key components of the intracellular junctions, where depolarization of the surface membrane is converted into the release of Ca²⁺ from internal stores. The α 1-subunit of the DHPR contains a cytoplasmic loop which is thought to be involved in the interactions with RyR. Phosphorylation of the DHPR α 1-subunit is also thought to play a role in the functional interaction of DHPR and RyR. Mutation in DHPR α 1 results in excitation-contraction uncoupling, leading to muscular dysgenesis, a complete inactivity in developing skeletal muscles. Cells that do not express RyR also lack excitation-contraction coupling and exhibit a severalfold reduction in Ca²⁺ current density.

Swiss-Prot

Q92736

Applications

Blocking

Specificity

This peptide can be used with studies using BS1783 RyR2 (N2802) pAb.

Purification & Purity

Synthetic peptide RyR2 (N2802). (Note: the amino acid sequence is proprietary). The purity is > 98%.

Product

1 mg/ml in DI water.

Storage & Stability

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Research Use

For research use only, not for use in diagnostic procedure.