Recombinant Human Ryanodine receptor 1(RYR1),partial

Catalog No: #AP70733

Package Size: #AP70733-1 20ug #AP70733-2 100ug #AP70733-3 1mg

Signalway Antibody
Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Recombinant Human Ryanodine receptor 1(RYR1),partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-534aaSequence Info:Partial
Other Names	Skeletal muscle calcium release channelSkeletal muscle ryanodine receptorSkeletal muscle-type ryanodine receptorType 1 ryanodine receptor
Accession No.	P21817
Calculated MW	63.3 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MGDAEGEDEVQFLRTDDEVVLQCSATVLKEQLKLCLAAEGFGNRLCFLEPTSNAQNVPPDLAICCFVLEQSLS VRALQEMLANTVEAGVESSQGGGHRTLLYGHAILLRHAHSRMYLSCLTTSRSMTDKLAFDVGLQEDATGEAC WWTMHPASKQRSEGEKVRVGDDIILVSVSSERYLHLSTASGELQVDASFMQTLWNMNPICSRCEEGFVTGG HVLRLFHGHMDECLTISPADSDDQRRLVYYEGGAVCTHARSLWRLEPLRISWSGSHLRWGQPLRVRHVTTG QYLALTEDQGLVVVDASKAHTKATSFCFRISKEKLDVAPKRDVEGMGPPEIKYGESLCFVQHVASGLWLTYAA PDPKALRLGVLKKKAMLHQEGHMDDALSLTRCQQEESQAARMIHSTNGLYNQFIKSLDSFSGKPRGSGPPAG TALPIEGVILSLQDLIIYFEPPSEDLQHEEKQSKLRSLRNRQSLFQEEGMLSMVLNCIDRLNVYTTAAHFAEFAG EEAAESWKEIVNLLYELLASLIRGNRS
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Calcium channel that mediates the release of Ca2+ from the sarcoplasmic reticulum into the cytoplasm and thereby plays a key role in triggering muscle contraction following depolarization of T-tubules. Repeated very high-level exercise increases the open probability of the channel and leads to Ca2+ leaking into the cytoplasm. Can also mediate the release of Ca2+ from intracellular stores in neurons, and may thereby promote prolonged Ca2+ signaling in the brain. Required for normal bryonic development of muscle fibers and skeletal muscle. Required for normal heart morphogenesis, skin development and ossification during bryogenesis .

References

Samaritan myopathy, an ultimately benign congenital myopathy, is caused by a RYR1 mutation.Bohm J., Leshinsky-Silver E., Vassilopoulos S., Le Gras S., Lerman-Sagie T., Ginzberg M., Jost B., Lev D., Laporte J.Acta Neuropathol. 124:575-581(2012)Research Topic:Transport

Note: This product is for in vitro research use only and is not intended for use in humans or animals.