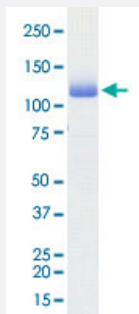


Bioactive

TRPM7 (Human) Recombinant Protein

Catalog # P5520 Size 5 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human TRPM7 (NP_060142.3, 1158 a.a. - 1865 a.a.) partial recombinant protein with GST tag expressed in baculovirus infected Sf21 cells.
Host	insect
Theoretical MW (kDa)	107
Form	Liquid
Preparation Method	Baculovirus infected insect cell (Sf21) expression system
Purification	Glutathione sepharose chromatography
Purity	99 % by SDS-PAGE/CBB staining

Activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescence-labeled substrate and Mg(or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by LabChip 3000. Substrate: EEf2Ktide. ATP: 1000 uM
Quality Control Testing	Loading 1 ug protein in SDS-PAGE
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.1% CHAPS, 1 mM DTT, 10% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — TRPM7

Entrez GeneID	54822
Protein Accession#	NP_060142.3
Gene Name	TRPM7
Gene Alias	CHAK, CHAK1, FLJ20117, FLJ25718, LTRPC7, TRP-PLIK
Gene Description	transient receptor potential cation channel, subfamily M, member 7
Omim ID	105500 605692
Gene Ontology	Hyperlink
Gene Summary	TRPCs, mammalian homologs of the Drosophila transient receptor potential (trp) protein, are ion channels that are thought to mediate capacitative calcium entry into the cell. TRP-PLIK is a protein that is both an ion channel and a kinase. As a channel, it conducts calcium and monovalent cations to depolarize cells and increase intracellular calcium. As a kinase, it is capable of phosphorylating itself and other substrates. The kinase activity is necessary for channel function, as shown by its dependence on intracellular ATP and by the kinase mutants.[supplied by OMIM]
Other Designations	LTRPC ion channel family member 7

Disease

- [Adenoma](#)
- [Adenomatous Polyps](#)
- [Amyotrophic lateral sclerosis](#)
- [Brain Ischemia](#)
- [Colonic Polyps](#)
- [Colorectal Neoplasms](#)
- [Dementia](#)
- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Hyperplasia](#)
- [Parkinson Disease](#)
- [Stroke](#)