abcam

Product datasheet

P2X7 peptide ab191248

Description

Product name	P2X7 peptide
Animal free	No
Nature	Synthetic

Specifications

Our Abpromise guarantee covers the use of **ab191248** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Blocking
Form	Liquid
Additional notes	This is the blocking peptide for ab109246 *- First try to dissolve a small amount of peptide in either water or buffer. The more charged residues on a peptide, the more soluble it is in aqueous solutions.* *- If the peptide doesn't dissolve try an organic solvent e.g. DMSO, then dilute using water or buffer.* *- Consider that any solvent used must be compatible with your assay. If a peptide does not dissolve and you need to recover it, lyophilise to remove the solvent.* *- Gentle warming and sonication can effectively aid peptide solubilisation. If the solution is cloudy or has gelled the peptide may be in suspension rather than solubilised.* *- Peptides containing cysteine are easily oxidised, so should be prepared in solution just prior to use.*

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C.

General Info

Function	Receptor for ATP that acts as a ligand-gated ion channel. Responsible for ATP-dependent lysis of macrophages through the formation of membrane pores permeable to large molecules. Could function in both fast synaptic transmission and the ATP-mediated lysis of antigen-presenting cells.
Tissue specificity	Widely expressed with highest levels in brain and immune tissues.

Sequence similarities	Belongs to the P2X receptor family.
Post-translational modifications	Phosphorylation results in its inactivation. ADP-ribosylation at Arg-125 is necessary and sufficient to activate P2RX7 and gate the channel. Palmitoylation of several cysteines in the C-terminal cytoplasmic tail is required for efficient localization to cell surface.
Cellular localization	Cell membrane.

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