

## Product datasheet

### IRS1 peptide ab204853

#### Description

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<b>Product name</b>	IRS1 peptide
<b>Purity</b>	> 95 % HPLC.
<b>Animal free</b>	No
<b>Nature</b>	Synthetic
<b>Sequence</b>	KKSRGDYMTMQIG
<b>Amino acids</b>	979 to 989

#### Specifications

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Our **Abpromise guarantee** covers the use of **ab204853** in the following tested applications.

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

<b>Applications</b>	Functional Studies HPLC
<b>Form</b>	Lyophilized
<b>Additional notes</b>	ab204853 (IRS1 peptide) can be utilized as a substrate for the following active protein kinases:

**ab64298** (Active human Axl protein fragment)

**ab85755** (Active human Dystrophia myotonica protein kinase full length protein)

**ab69988** (Active Insulin Receptor R protein fragment)

**ab70687** (Active human Insulin Receptor protein fragment)

**ab70541** (Active human RON protein fragment)

**ab60337** (Active human Serine/threonine-protein kinase 4 full length protein)

**ab55710** (Active human LOK protein fragment)

#### Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Store at -20°C. Avoid freeze / thaw cycle.
<b>Reconstitution</b>	Dilute peptide in distilled water to a final concentration of 1mg/ml

## General Info

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<b>Function</b>	May mediate the control of various cellular processes by insulin. When phosphorylated by the insulin receptor binds specifically to various cellular proteins containing SH2 domains such as phosphatidylinositol 3-kinase p85 subunit or GRB2. Activates phosphatidylinositol 3-kinase when bound to the regulatory p85 subunit.
<b>Involvement in disease</b>	Polymorphisms in IRS1 may be involved in the etiology of non-insulin-dependent diabetes mellitus (NIDDM) [MIM:125853].
<b>Sequence similarities</b>	Contains 1 IRS-type PTB domain. Contains 1 PH domain.
<b>Post-translational modifications</b>	Serine phosphorylation of IRS1 is a mechanism for insulin resistance. Ser-312 phosphorylation inhibits insulin action through disruption of IRS1 interaction with the insulin receptor. Phosphorylation of Tyr-896 is required for GRB2-binding.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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