

Product datasheet

IRS1 peptide ab204862

Description

Product name	IRS1 peptide
Purity	> 95 % HPLC.
Animal free	No
Nature	Synthetic
Sequence	KKKSPGEYVNIIEFG
Amino acids	891 to 902

Specifications

Our **Abpromise guarantee** covers the use of **ab204862** in the following tested applications.

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

Applications	Functional Studies HPLC
Form	Lyophilized
Additional notes	ab204862 (IRS1 peptide) can be utilized as a substrate for the following active protein kinases:

ab187246 (Active human ALK protein fragment)

ab84771 (Active human VEGF Receptor 1 full length protein)

ab71657 (Active IGF1 Receptor protein fragment)

ab84791 (Active human Ret protein fragment)

ab125624 (Active human ROS protein fragment)

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C. Avoid freeze / thaw cycle.
Reconstitution	Dilute peptide in 20mM Tris-HCl, pH 7.5 solution to a final concentration of 1 mg/ml. For optimal storage, aliquot diluted product into smaller quantities and store at recommended temperature.

General Info

Function	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.
Involvement in disease	Polymorphisms in IRS1 may be involved in the etiology of non-insulin-dependent diabetes mellitus (NIDDM) [MIM:125853].
Sequence similarities	Contains 1 IRS-type PTB domain. Contains 1 PH domain.
Post-translational modifications	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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